



+ QRATE Scanner 3X00 Modbus Protocol Manual

Important Safety Information

Symbols and Terms Used in this Manual

| | | |
|---|----------------------|---|
|  | WARNING | Identifies information about practices or circumstances that can lead to personal injury or death, property damage, or economic loss. |
| | AVERTISSEMENT | Un avertissement identifie des informations sur des pratiques ou des circonstances pouvant entraîner des blessures corporelles ou la mort, des dommages matériels ou des pertes économiques. |
|  | CAUTION | Caution, risk of electric shock |
| | ATTENTION | Attention, risque d'électrocution |
| | CAUTION | Indicates actions or procedures which if not performed correctly may lead to personal injury or incorrect function of the instrument or connected equipment. |
| | Attention | Indiquez les actions ou les procédures qui, si elles ne sont pas effectuées correctement, peuvent entraîner des blessures ou un mauvais fonctionnement de l'instrument ou de l'équipement connecté. |
| | Note | Indicates actions or procedures which may affect instrument operation or may lead to an instrument response which is not planned. |
| | Remarque | Indique des informations supplémentaires sur des conditions ou des circonstances spécifiques pouvant affecter le fonctionnement de l'instrument. |

Contact Sensia

For technical support, please refer to <https://www.sensiaglobal.com/Technical-Support>.

For all other inquiries, please refer to <https://www.sensiaglobal.com/Customer-Care> or dial 1-866-773-6742.

Revision History

| Revision | Description of Change | Issuer | Approver | Date |
|----------|--|--------|----------|------------|
| 05 | Updated to be 3X00 universal protocol manual | AK | TM | 05/03/2021 |
| | | | | |

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Section 1—32-Bit Modbus Protocol (Default)

Introduction

The communications protocol for the QRATE Scanner 3X00 integrated control flow computers is in accordance with Modicon, Inc. RTU Mode Modbus as described in *Modicon Modbus Protocol Reference Guide*, PI-MBUS-300 Rev. J, June 1996. All registers are implemented as 4X or holding registers. Reading of registers is implemented via function code 03H (Read Holding Registers). Writing to registers is implemented via function code 10H (Preset Multiple Registers). The instrument provides Enron Modbus compliant downloads for interval, daily and event records. For details on Enron Modbus, refer to *Specifications and Requirements for an Electronic Flow Measurement Remote Terminal Unit for Enron Corp.*, Dec. 5, 1994.

QRATE Scanner 3X00 Modbus Maps

The QRATE Scanner 3X00 protocol is supported by three pre-defined register maps and a Sensia software application, ScanMap, for customizing maps to suit individual host requirements.

- Two Modbus maps are preloaded in the QRATE Scanner 3X00 device:
 - A 32-bit Enron Modbus map includes registers for the device and up to 20 slave devices. These registers are described in this section. This map is also stored in ScanMap software (see [Table 1.1](#)).
 - A 16-bit Modbus map includes registers for the device and up to 20 slave devices and presents values in a 16-bit standard Modbus format. These registers are described in [Section 2—16-Bit Modbus Protocol](#). This map is also stored in the ScanMap software (see [Table 1.1](#) below).
- A third Modbus map—a version of the 32-bit Enron Modbus map without slave device registers (“base unit” map)—is available for download from Sensia’s ScanMap software. See S3X00_MAP_TEMPLATE_ENRON_BASE_UNIT in [Table 1.1](#). See [ScanMap Download](#) below for download instructions.

Note

The Scanner 3300 does not support MVT (Static and Differential Pressure Registers).

Table 1.1—Predefined Modbus Maps

| Pre-Defined Modbus Map | QRATE Scanner 3X00 Registers | Enron History & Events | Slave Device Registers | Preloaded in the QRATE Scanner 3X00 | ScanMap Template Name |
|------------------------------|------------------------------|------------------------|------------------------|-------------------------------------|------------------------------------|
| 32-Bit Enron Modbus | ✓ | ✓ | ✓ | ✓ | S3X00_MAP_TEMPLATE_ENRON_DEFAULT |
| 16-Bit Modbus | ✓ | — | ✓ | ✓ | S3X00_MAP_TEMPLATE_MODBUS |
| Modified 32-Bit Enron Modbus | ✓ | ✓ | — | — | S3X00_MAP_TEMPLATE_ENRON_BASE_UNIT |

User-Defined Maps (ScanMap Software)

ScanMap software allows a user to create a custom Modbus register map by modifying the contents of a pre-defined map or using a blank template and selecting individual registers. ScanMap includes databases for all three of the pre-defined Modbus maps described above. Each can be used as-is, or modified with user-specified registers and units.

See [Table 1.1](#) for the names of available register map templates.

ScanMap Download

To download ScanMap and/or the ScanMap User Manual, visit Sensia’s Measurement website at <https://sen-siaglobal.com/Measurement>, select **Flow Computing and Automation**, then **3000 series QRATE Scanner Integrated control flow computer**, and click the link for the ScanMap install or manual.

Standard Modbus Functions

The Modbus functions supported by the QRATE Scanner 3X00 are as follows:

| Function Code (Hex) | Description |
|---------------------|---------------------------|
| 03 | Read Holding Registers |
| 10 | Preset Multiple Registers |

Data Types

Various data types are implemented in the QRATE Scanner 3X00. The following table lists the formats and the numbers of bytes and registers associated with each type.

| Data Format | Data Type | Byte Count | Register Count |
|-------------|---------------------------|------------|----------------|
| 32-bit | Floating Point (FP) | 4 | 1 |
| | Unsigned Long (INT32) | 4 | 1 |
| | Packed ASCII (String [4]) | 4 | 1 |
| 16-bit | Floating Point (FP) | 4 | 2 |
| | Unsigned Long (INT32) | 4 | 2 |
| | Packed ASCII (String [4]) | 4 | 2 |
| | Enron Record (ER) | — | — |

The word ordering for multiple register data types, such as floating-point numbers or long integers, is for the most significant word to appear first in the message.

Packed ASCII

The Packed ASCII (PA) type contains four bytes that are four unsigned characters. Generally, multiple Packed ASCII types are arranged consecutively for implementing strings. For example, the Model Number is a string of 16 unsigned characters that is implemented as four Packed ASCII registers. Here is an example of a model number from the 32-bit internal Enron Modbus map that contains the string “S3X00-G2.”

| Register | Hexadecimal | ASCII Characters |
|----------|-------------|------------------|
| 105 | 53 33 31 30 | S310 |
| 106 | 30 2d 47 31 | 0-G1 |
| 107 | 00 00 00 00 | <UNUSED> |
| 108 | 00 00 00 00 | <UNUSED> |

Unused characters at the end of each string will report 0x00 hexadecimal.

Registers

Each register has an Access type: read-only or read-write, as described below.

| Access Type | Description |
|-----------------|----------------------------------|
| Read Only (RO) | Register Can Only Be Read |
| Read/Write (RW) | Register Can Be Read and Written |

The registers are grouped into Modbus map blocks according to function. The QRATE Scanner 3X00 devices contain the following map functions.

| Register Sections | Starting Address | Register Size |
|--|------------------|---------------|
| Events (16-bit) | 32 | 16-Bit |
| Command Registers | 71 | 32-Bit |
| System Information (General) | 101 | 32-Bit |
| History (16-bit) | 701 | 16-Bit |
| Archive 1: Daily Selections (32-bit) | 1000 | 32-Bit |
| Archive 1: Prev Daily Selections (32-bit) | 1075 | 32-Bit |
| Archive 1: Interval Selections (32-bit) | 1150 | 32-Bit |
| Archive 1: Prev Interval Selections (32-bit) | 1225 | 32-Bit |
| Archive 2: Daily Selections (32-bit) | 1300 | 32-Bit |
| Archive 2: Prev Daily Selections (32-bit) | 1375 | 32-Bit |
| Archive 2: Interval Selections (32-bit) | 1450 | 32-Bit |
| Archive 2: Prev Interval Selections (32-bit) | 1525 | 32-Bit |
| Triggered Selections (32-bit) | 1600 | 32-Bit |
| Prev Triggered Selections (32-bit) | 1650 | 32-Bit |
| Status | 5001 | 32-Bit |
| Input/Output Holding (Integers) | 5201 | 32-Bit |
| Flow Run 1 Holding (Integers) | 5301 | 32-Bit |
| Flow Run 2 Holding (Integers) | 5401 | 32-Bit |
| Input/Output Configuration (Integers) | 5601 | 32-Bit |
| Flow Run 1 Configuration (Integers) | 5701 | 32-Bit |
| Flow Run 2 Configuration (Integers) | 5801 | 32-Bit |
| Slave 1 Holding (Integers) | 6601 | 32-Bit |
| Slave 2 Holding (Integers) | 6611 | 32-Bit |
| Slave 3 Holding (Integers) | 6621 | 32-Bit |
| Slave 4 Holding (Integers) | 6631 | 32-Bit |
| Slave 5 Holding (Integers) | 6641 | 32-Bit |
| Slave 6 Holding (Integers) | 6651 | 32-Bit |
| Slave 7 Holding (Integers) | 6661 | 32-Bit |
| Slave 8 Holding (Integers) | 6671 | 32-Bit |
| Slave 9 Holding (Integers) | 6681 | 32-Bit |
| Slave 10 Holding (Integers) | 6691 | 32-Bit |
| Slave 11 Holding (Integers) | 6701 | 32-Bit |
| Slave 12 Holding (Integers) | 6711 | 32-Bit |
| Slave 13 Holding (Integers) | 6721 | 32-Bit |
| Slave 14 Holding (Integers) | 6731 | 32-Bit |
| Slave 15 Holding (Integers) | 6741 | 32-Bit |
| Slave 16 Holding (Integers) | 6751 | 32-Bit |
| Slave 17 Holding (Integers) | 6761 | 32-Bit |
| Slave 18 Holding (Integers) | 6771 | 32-Bit |
| Slave 19 Holding (Integers) | 6781 | 32-Bit |
| Slave 20 Holding (Integers) | 6791 | 32-Bit |

| Register Sections | Starting Address | Register Size |
|--|------------------|---------------|
| Archive Status | 7001 | 32-Bit |
| Input/Output Holding (Floating Points) | 7201 | 32-Bit |
| Flow Run 1 Holding (Floating Points) | 7401 | 32-Bit |
| Flow Run 2 Holding (Floating Points) | 7601 | 32-Bit |
| Gas Stream 1 Holding | 7801 | 32-Bit |
| Gas Stream 2 Holding | 7901 | 32-Bit |
| System Measurements | 8001 | 32-Bit |
| Scanner Logic HMI User Fields | 8051 | 32-Bit |
| Scanner Logic HMI PID Fields | 8126 | 32-Bit |
| Input/Output Holding (Floating Points) | 8201 | 32-Bit |
| Flow Run 1 Configuration (Floating Points) | 8301 | 32-Bit |
| Flow Run 2 Configuration (Floating Points) | 8401 | 32-Bit |
| Gas Stream 1 Holding | 8501 | 32-Bit |
| Gas Stream 2 Holding | 8601 | 32-Bit |
| Slave 1 Holding (Floating Points) | 9001 | 32-Bit |
| Slave 2 Holding (Floating Points) | 9026 | 32-Bit |
| Slave 3 Holding (Floating Points) | 9051 | 32-Bit |
| Slave 4 Holding (Floating Points) | 9076 | 32-Bit |
| Slave 5 Holding (Floating Points) | 9101 | 32-Bit |
| Slave 6 Holding (Floating Points) | 9126 | 32-Bit |
| Slave 7 Holding (Floating Points) | 9151 | 32-Bit |
| Slave 8 Holding (Floating Points) | 9176 | 32-Bit |
| Slave 9 Holding (Floating Points) | 9201 | 32-Bit |
| Slave 10 Holding (Floating Points) | 9226 | 32-Bit |
| Slave 11 Holding (Floating Points) | 9251 | 32-Bit |
| Slave 12 Holding (Floating Points) | 9276 | 32-Bit |
| Slave 13 Holding (Floating Points) | 9301 | 32-Bit |
| Slave 14 Holding (Floating Points) | 9326 | 32-Bit |
| Slave 15 Holding (Floating Points) | 9351 | 32-Bit |
| Slave 16 Holding (Floating Points) | 9376 | 32-Bit |
| Slave 17 Holding (Floating Points) | 9401 | 32-Bit |
| Slave 18 Holding (Floating Points) | 9426 | 32-Bit |
| Slave 19 Holding (Floating Points) | 9451 | 32-Bit |
| Slave 20 Holding (Floating Points) | 9476 | 32-Bit |
| Slave 1 Configuration (Floating Points) | 9501 | 32-Bit |
| Slave 2 Configuration (Floating Points) | 9526 | 32-Bit |
| Slave 3 Configuration (Floating Points) | 9551 | 32-Bit |
| Slave 4 Configuration (Floating Points) | 9576 | 32-Bit |
| Slave 5 Configuration (Floating Points) | 9601 | 32-Bit |
| Slave 6 Configuration (Floating Points) | 9626 | 32-Bit |
| Slave 7 Configuration (Floating Points) | 9651 | 32-Bit |
| Slave 8 Configuration (Floating Points) | 9676 | 32-Bit |
| Slave 9 Configuration (Floating Points) | 9701 | 32-Bit |

| Register Sections | Starting Address | Register Size |
|--|------------------|---------------|
| Slave 10 Configuration (Floating Points) | 9726 | 32-Bit |
| Slave 11 Configuration (Floating Points) | 9751 | 32-Bit |
| Slave 12 Configuration (Floating Points) | 9776 | 32-Bit |
| Slave 13 Configuration (Floating Points) | 9801 | 32-Bit |
| Slave 14 Configuration (Floating Points) | 9826 | 32-Bit |
| Slave 15 Configuration (Floating Points) | 9851 | 32-Bit |
| Slave 16 Configuration (Floating Points) | 9876 | 32-Bit |
| Slave 17 Configuration (Floating Points) | 9901 | 32-Bit |
| Slave 18 Configuration (Floating Points) | 9926 | 32-Bit |
| Slave 19 Configuration (Floating Points) | 9951 | 32-Bit |
| Slave 20 Configuration (Floating Points) | 9976 | 32-Bit |

Important All registers cited in this document refer to the address of the register that appears in the actual Modbus message. For example, register 8000 has an address of 0x1F40 hexadecimal in the message.

Events (16-bit)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|-----------------------------|-----------|-------|--------|
| 32 | 0020 | Enron: Event/Alarm Register | ER | — | RO |

Command Registers

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|------------------------------------|-----------|-------|--------|
| 71 | 0047 | Command Register: Argument 1 | INT32 | — | RW |
| 72 | 0048 | Command Register: Argument 2 | INT32 | — | RW |
| 73 | 0049 | Command Register: Argument 3 | INT32 | — | RW |
| 74 | 004A | Command Register: Argument 4 | INT32 | — | RW |
| 75 | 004B | Command Register: Command Register | INT32 | — | RW |
| 76 | 004C | Command Register: Response Code | INT32 | — | RW |

Important The argument code must be written *before* the register code. If “—” is shown, write 0.

Important Administration rights are required to write command registers.

| Code | Description | Arg 1 | Arg 2 | Arg 3 | Arg 4 | Config Lock |
|--|---|---|-------|-------|-------|-------------|
| <i>If Config Lock = Yes, an active configuration lock in the Scanner prevents changes to the register.</i> | | | | | | |
| 100100 | Clears the triggered archive pointers and indices | 0 = All 1 = Trigger Archive 1 2 = Trigger Archive 2 | — | — | — | No |

| Code | Description | Arg 1 | Arg 2 | Arg 3 | Arg 4 | Config Lock |
|---|--|--|--|---------------|-------|-------------|
| <i>If Config Lock = Yes, an active configuration lock in the Scanner prevents changes to the register.</i> | | | | | | |
| 100102 | Clears the event archive pointers and indices | 0 = All 1 = Event Archive 1 | | | | |
| 100104 | Sets the slave device archive pointers on the QRATE Scanner 3X00 | 0 = All 1 = Slave Archive 1 2 = Slave Archive 2 (continues through Slave Archive 20) | 0 = Force Sync (stop downloads) 1 = Force Reload of all records | — | — | Yes |
| 100333 | Resets the device (software reset) | — | — | — | — | No |
| 120000 | Sets the internal real-time clock | RealDate (0xYYYYMMDD) | RealTime (0xHHMMSS00) | — | — | No |
| | | 0x00000000 = Preserve Current Date | TIME = 0x00000000: Preserve Current Time TIME = 0x00000001: Set RTC to 00:00:00 | — | — | No |
| 120001 | Sets the date of the internal real-time clock. | Year = Gregorian year in decimal (i.e.: 2015) | Month = 1 to 12 (January to December) | Day = 1 to 31 | — | No |
| 120002 | Sets the time of the internal real-time clock. | Hour = 0 to 23 | Minute = 0 to 59 | Sec = 0 to 59 | — | No |
| 200001 | Sets the current local display group or advances to next display group. | 0 = Advance to Next Display Group 1 – 32 = Set Display Group | — | — | — | No |
| 500000 | Change the state of continuous triggering for Triggered Archive if Triggered Archive is in manual mode. The trigger interval is fixed at one second. | 0 = Stop triggering 1 = Start triggering | — | — | — | No |
| 500001 | Sets archive trigger once if triggered archive is in manual mode. | — | — | — | — | No |
| 500002 | Releases a triggered archive from a latched state. | — | — | — | — | No |
| 500050 | Publishes all triggered registers to the previous triggered registers. | — | — | — | — | No |
| 500100 | Creates archive partial records. | — | — | — | — | No |

| Code | Description | Arg 1 | Arg 2 | Arg 3 | Arg 4 | Config Lock |
|---|--|--|-------|-------|-------|-------------|
| <i>If Config Lock = Yes, an active configuration lock in the Scanner prevents changes to the register.</i> | | | | | | |
| 500300 | Clears the unacknowledged device alarms. Will not unlatch DIO. | — | — | — | — | No |
| 500500 | Bit mask uses bits to identify which DIO blocks to clear. | Bit Mask: XXXX XXXX XX65 4321 0 = Do Not Unlatch DIO 1 = Unlatch DIO | — | — | — | No |
| 500600 | Enables wireless manager. | — | — | — | — | No |
| 500601 | Disables wireless manager. | — | — | — | — | No |
| 500700 | Obtains wireless mesh path information for all connected motes. | — | — | — | — | No |
| 501000 | Clears statistic information for a target port. | 0 = All 1 = Serial Port 1 2 = Serial Port 2 3 = Serial Port 3 21 = TCP 1 22 = TCP 2 | — | — | — | No |
| 600000 | Triggers the creation of a snapshot file. | 0 = All 1 = Flow Run 1 2 = Flow Run 2 | — | — | — | No |
| 600300 | Stores the current Flow Run Factor Calibration Map Data as a new calibration. Web interface should be used to configure the calibration type. New factors must be written (per the Linear Calibration Factor procedure below) before sending this command. | 1 = Flow Run 1 2 = Flow Run 2 | — | — | — | Yes |
| 600302 | Stores the current Input K-Factor Calibration Map Data as a new calibration. Web interface should be used to configure the calibration type. New factors must be written (per the Linear Calibration Factor procedure below) before sending this command. | 1 = Pulse Input 1 2 = Pulse Input 2 3 = Pulse Input 3 | — | — | — | Yes |

| Code | Description | Arg 1 | Arg 2 | Arg 3 | Arg 4 | Config Lock |
|---|---|--|---|-------|-------|-------------|
| <i>If Config Lock = Yes, an active configuration lock in the Scanner prevents changes to the register.</i> | | | | | | |
| 601000 | Programs the operating mode for a PID controller. The analog output must be in PID mode for this command to take effect. | 1 = Analog Output 1 2 = Analog Output 2 | 0 = Automatic 1 = Manual Override | — | — | No |
| 601001 | Changes the operating mode for a PID Controller to manual and sets an override value. The target analog output must be in PID mode for this command to take effect. | 1 = Analog Output 1 2 = Analog Output 2 | Override: 0.0 to 1.0 written as 32-bit floating point. <i>For example: To apply a 0.75 override, convert 0.75 to a 32-bit floating point (0x3F400000), write the value to Argument 2, and write command.</i> | — | — | No |
| 601002 | Programs the operating mode for a PID Controller to automatic and sets an override value. The target analog output must be in PID mode for this command to take effect. | 1 = Analog Output 1 2 = Analog Output 2 | Setpoint: 32-bit floating point value in the user-selected unit for the measurement category of the control variable. <i>For example: To apply a 123.45 set point, convert 123.45 to a 32-bit floating point (0x42f6e666), write the value to Argument 2, and write command.</i> | — | — | No |

| Code | Description | Arg 1 | Arg 2 | Arg 3 | Arg 4 | Config Lock |
|---|--|---------------------------------------|--|-------|-------|-------------|
| <i>If Config Lock = Yes, an active configuration lock in the Scanner prevents changes to the register.</i> | | | | | | |
| 610000 | Sends the selected Data Set to the selected Slave Device. This will cause the registers within the QRATE Scanner 3X00 to be written to the configuration of the connected slave. The configuration change may take up to 15 seconds to complete. | 0 = None 1 - 20 = Slave1 - Slave20 | <p><i>To synchronize a slave configuration change made in the QRATE Scanner 3X00 with the corresponding slave device, write the desired value from the list below to Argument 2, and write command. To confirm the change is accepted by the slave device, read register 5056.</i></p> <p>0 = None 1 = Device Name 2 = Archive Configuration 3 = Flow Run Configuration 4 = Flow Run Maintenance 5 = Gas Composition 6 = Cone Calibration 7 = Turbine Input 1 Configuration 8 = Turbine Input 1 K-Factor Calibration 9 = Turbine Input 2 Configuration 10 = Turbine Input 2 K-Factor Calibration 11 = Diff Pressure Configuration 12 = Diff Pressure Calibration 13 = Static Pressure Configuration 14 = Static Pressure Calibration 15 = Temperature Configuration 16 = Temperature Calibration 17 = Analog Input 1 Configuration / PID Controller Settings 18 = Analog Input 1 Calibration 19 = Analog Input 2 Configuration 20 = Analog Input 2 Calibration</p> | — | — | Yes |

| Code | Description | Arg 1 | Arg 2 | Arg 3 | Arg 4 | Config Lock |
|--|---|--|-------|-------|-------|-------------|
| <i>If Config Lock = Yes, an active configuration lock in the Scanner prevents changes to the register.</i> | | | | | | |
| 700000 | Loads factory defaults for all configurations except network settings. | — | — | — | — | Yes |
| 700001 | Loads factory defaults for all configurations except network settings and communication port settings | — | — | — | — | Yes |
| 700070 | Resets all grand totals | — | — | — | — | No |
| 700071 | Resets flow run grand totals | 0 = All 1 = Flow Run 1 2 = Flow Run 2 | — | — | — | No |
| 700072 | Resets pulse input grand totals | 0 = All 1 = Pulse Input 1 2 = Pulse Input 2 3 = Pulse Input 3 | — | — | — | No |
| 777333 | Tests the control code and returns a response code of “33337777.” | — | — | — | — | Yes |
| 800000 | Restarts all or selected Scanner Logic tasks. | 0 = All 1 = Task 1 2 = Task 2 3 = Task 3 4 = Task 4 | — | — | — | No |
| 800001 | Aborts all Scanner Logic tasks and enters abort state. Emergency stop. | — | — | — | — | No |
| 800008 | Clears the unacknowledged Scanner Logic alarms register. Does not unlatch DIO. | — | — | — | — | No |

Changing a Linear Calibration Factor

To update the linear calibration factor, write the register in following order:

1. Write the Nominal Factor value for the desired calibration in 32-bit floating point format:
 - Pulse Input 1: Calibration: Nominal K-Factor, Address 8212
 - Pulse Input 2: Calibration: Nominal K-Factor, Address 8213
 - Pulse Input 3: Calibration: Nominal K-Factor, Address 8214
 - Flow Run 1: Calibration: Nominal Factor, Address 8318
 - Flow Run 2: Calibration: Nominal Factor, Address 8418
2. Write the Command Arguments 1 through 4 (Address 71-74) to choose the input to be updated.

- Write the code for Command Register (Address 75) in unsigned long format. The code is 600300 for flow runs and 600302 for pulse inputs.

System Information (General)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|-------------------------------|-----------|--------|--------|
| 101 | 0065 | System: Firmware Version | FP | — | RO |
| 102 | 0066 | System: Boot Loader Version | FP | — | RO |
| 103 | 0067 | System: LEP Firmware Version | FP | — | RO |
| 104 | 0068 | System: UIC Firmware Version | FP | — | RO |
| 105 | 0069 | System: Model Number S 1 | String[4] | — | RO |
| 106 | 006A | System: Model Number S 2 | String[4] | — | RO |
| 107 | 006B | System: Model Number S 3 | String[4] | — | RO |
| 108 | 006C | System: Model Number S 4 | String[4] | — | RO |
| 109 | 006D | System: Serial Number 1 | INT32 | — | RO |
| 110 | 006E | System: Serial Number 2 | INT32 | — | RO |
| 111 | 006F | System: Manufacturing Date | FP | MMDDYY | RO |
| 112 | 0070 | System: Manufacturing Time | FP | HHMMSS | RO |
| 113 | 0071 | System: Sale Date | FP | MMDDYY | RO |
| 114 | 0072 | System: Sale Time | FP | HHMMSS | RO |
| 115 | 0073 | System: MVT Serial Number S 1 | String[4] | — | RO |
| 116 | 0074 | System: MVT Serial Number S 2 | String[4] | — | RO |
| 117 | 0075 | System: MVT Serial Number S 3 | String[4] | — | RO |
| 118 | 0076 | System: MVT Serial Number S 4 | String[4] | — | RO |
| 119 | 0077 | System: Archive Contract Hour | INT32 | — | RW |

Model Number

The Model Number is a read-only parameter set by the factory, stored in two 32-bit registers and used to identify a QRATE Scanner 3X00 device. See [Packed ASCII, page 10](#), for details about decoding packed ASCII values.

Firmware Version

Firmware version numbers are read-only values set by the factory and stored in the IEEE 754 single precision floating point format. For example, a firmware register number is read as 0x3F853F7D in hexadecimal. This represents a version as 1.041.

Manufacture Date/Sales Date

These date and time parameters are read-only values set at the factory and stored in the IEEE 754 single precision floating point format in two 32-bit registers. Only the integer portion of the floating point value is used to represent the date or time. The first register defines the date in MMDDYY format. The second register defines the time in HHMMSS format.

| Parameter | Tag ID |
|------------------|--|
| Manufacture Date | m32_MM_MC_SystemInfo_ManufacturingDate |
| Manufacture Time | m32_MM_MC_SystemInfo_ManufacturingTime |
| Sales Date | m32_MM_MC_SystemInfo_SalesDate |
| Sales Time | m32_MM_MC_SystemInfo_SalesTime |

MVT Serial Number

The MVT serial number is stored as a Packed ASCII number in four 32-bit registers used to identify an MVT device. See [Packed ASCII, page 10](#), for details about decoding packed ASCII values.

History (16-bit)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-------|--------|
| 701 | 02BD | Flow Archive 1: Access: Daily Request | ER | — | RO |
| 702 | 02BE | Flow Archive 1: Access: Interval Request | ER | — | RO |
| 703 | 02BF | Flow Archive 2: Access: Daily Request | ER | — | RO |
| 704 | 02C0 | Flow Archive 2: Access: Interval Request | ER | — | RO |
| 705 | 02C1 | Triggered Archive 1: Access: Triggered Record Request | ER | — | RO |
| 706 | 02C2 | — | | | |
| 707 | 02C3 | Slave Archive 1: Access: Daily Request | ER | — | RO |
| 708 | 02C4 | Slave Archive 1: Access: Interval Request | ER | — | RO |
| 709 | 02C5 | Slave Archive 2: Access: Daily Request | ER | — | RO |
| 710 | 02C6 | Slave Archive 2: Access: Interval Request | ER | — | RO |
| 711 | 02C7 | Slave Archive 3: Access: Daily Request | ER | — | RO |
| 712 | 02C8 | Slave Archive 3: Access: Interval Request | ER | — | RO |
| 713 | 02C9 | Slave Archive 4: Access: Daily Request | ER | — | RO |
| 714 | 02CA | Slave Archive 4: Access: Interval Request | ER | — | RO |
| 715 | 02CB | Slave Archive 5: Access: Daily Request | ER | — | RO |
| 716 | 02CC | Slave Archive 5: Access: Interval Request | ER | — | RO |
| 717 | 02CD | Slave Archive 6: Access: Daily Request | ER | — | RO |
| 718 | 02CE | Slave Archive 6: Access: Interval Request | ER | — | RO |
| 719 | 02CF | Slave Archive 7: Access: Daily Request | ER | — | RO |
| 720 | 02D0 | Slave Archive 7: Access: Interval Request | ER | — | RO |
| 721 | 02D1 | Slave Archive 8: Access: Daily Request | ER | — | RO |
| 722 | 02D2 | Slave Archive 8: Access: Interval Request | ER | — | RO |
| 723 | 02D3 | Slave Archive 9: Access: Daily Request | ER | — | RO |
| 724 | 02D4 | Slave Archive 9: Access: Interval Request | ER | — | RO |
| 725 | 02D5 | Slave Archive 10: Access: Daily Request | ER | — | RO |
| 726 | 02D6 | Slave Archive 10: Access: Interval Request | ER | — | RO |
| 727 | 02D7 | Slave Archive 11: Access: Daily Request | ER | — | RO |
| 728 | 02D8 | Slave Archive 11: Access: Interval Request | ER | — | RO |
| 729 | 02D9 | Slave Archive 12: Access: Daily Request | ER | — | RO |
| 730 | 02DA | Slave Archive 12: Access: Interval Request | ER | — | RO |
| 731 | 02DB | Slave Archive 13: Access: Daily Request | ER | — | RO |
| 732 | 02DC | Slave Archive 13: Access: Interval Request | ER | — | RO |
| 733 | 02DD | Slave Archive 14: Access: Daily Request | ER | — | RO |
| 734 | 02DE | Slave Archive 14: Access: Interval Request | ER | — | RO |
| 735 | 02DF | Slave Archive 15: Access: Daily Request | ER | — | RO |
| 736 | 02E0 | Slave Archive 15: Access: Interval Request | ER | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 737 | 02E1 | Slave Archive 16: Access: Daily Request | ER | — | RO |
| 738 | 02E2 | Slave Archive 16: Access: Interval Request | ER | — | RO |
| 739 | 02E3 | Slave Archive 17: Access: Daily Request | ER | — | RO |
| 740 | 02E4 | Slave Archive 17: Access: Interval Request | ER | — | RO |
| 741 | 02E5 | Slave Archive 18: Access: Daily Request | ER | — | RO |
| 742 | 02E6 | Slave Archive 18: Access: Interval Request | ER | — | RO |
| 743 | 02E7 | Slave Archive 19: Access: Daily Request | ER | — | RO |
| 744 | 02E8 | Slave Archive 19: Access: Interval Request | ER | — | RO |
| 745 | 02E9 | Slave Archive 20: Access: Daily Request | ER | — | RO |
| 746 | 02EA | Slave Archive 20: Access: Interval Request | ER | — | RO |

Archive 1: Daily Selections (32-bit)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|------------------------------|-----------|-------|--------|
| 1000 | 03E8 | FA1S1: Holding: Daily Value | FLOAT | — | RO |
| 1001 | 03E9 | FA1S2: Holding: Daily Value | FLOAT | — | RO |
| 1002 | 03EA | FA1S3: Holding: Daily Value | FLOAT | — | RO |
| 1003 | 03EB | FA1S4: Holding: Daily Value | FLOAT | — | RO |
| 1004 | 03EC | FA1S5: Holding: Daily Value | FLOAT | — | RO |
| 1005 | 03ED | FA1S6: Holding: Daily Value | FLOAT | — | RO |
| 1006 | 03EE | FA1S7: Holding: Daily Value | FLOAT | — | RO |
| 1007 | 03EF | FA1S8: Holding: Daily Value | FLOAT | — | RO |
| 1008 | 03F0 | FA1S9: Holding: Daily Value | FLOAT | — | RO |
| 1009 | 03F1 | FA1S10: Holding: Daily Value | FLOAT | — | RO |
| 1010 | 03F2 | FA1S11: Holding: Daily Value | FLOAT | — | RO |
| 1011 | 03F3 | FA1S12: Holding: Daily Value | FLOAT | — | RO |
| 1012 | 03F4 | FA1S13: Holding: Daily Value | FLOAT | — | RO |
| 1013 | 03F5 | FA1S14: Holding: Daily Value | FLOAT | — | RO |
| 1014 | 03F6 | FA1S15: Holding: Daily Value | FLOAT | — | RO |
| 1015 | 03F7 | FA1S16: Holding: Daily Value | FLOAT | — | RO |
| 1016 | 03F8 | FA1S17: Holding: Daily Value | FLOAT | — | RO |
| 1017 | 03F9 | FA1S18: Holding: Daily Value | FLOAT | — | RO |
| 1018 | 03FA | FA1S19: Holding: Daily Value | FLOAT | — | RO |
| 1019 | 03FB | FA1S20: Holding: Daily Value | FLOAT | — | RO |
| 1020 | 03FC | FA1S21: Holding: Daily Value | FLOAT | — | RO |
| 1021 | 03FD | FA1S22: Holding: Daily Value | FLOAT | — | RO |
| 1022 | 03FE | FA1S23: Holding: Daily Value | FLOAT | — | RO |
| 1023 | 03FF | FA1S24: Holding: Daily Value | FLOAT | — | RO |
| 1024 | 0400 | FA1S25: Holding: Daily Value | FLOAT | — | RO |
| 1025 | 0401 | FA1S26: Holding: Daily Value | FLOAT | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|------------------------------|-----------|-------|--------|
| 1026 | 0402 | FA1S27: Holding: Daily Value | FLOAT | — | RO |
| 1027 | 0403 | FA1S28: Holding: Daily Value | FLOAT | — | RO |
| 1028 | 0404 | FA1S29: Holding: Daily Value | FLOAT | — | RO |
| 1029 | 0405 | FA1S30: Holding: Daily Value | FLOAT | — | RO |
| 1030 | 0406 | FA1S31: Holding: Daily Value | FLOAT | — | RO |
| 1031 | 0407 | FA1S32: Holding: Daily Value | FLOAT | — | RO |
| 1032 | 0408 | FA1S33: Holding: Daily Value | FLOAT | — | RO |
| 1033 | 0409 | FA1S34: Holding: Daily Value | FLOAT | — | RO |
| 1034 | 040A | FA1S35: Holding: Daily Value | FLOAT | — | RO |
| 1035 | 040B | FA1S36: Holding: Daily Value | FLOAT | — | RO |
| 1036 | 040C | FA1S37: Holding: Daily Value | FLOAT | — | RO |
| 1037 | 040D | FA1S38: Holding: Daily Value | FLOAT | — | RO |
| 1038 | 040E | FA1S39: Holding: Daily Value | FLOAT | — | RO |
| 1039 | 040F | FA1S40: Holding: Daily Value | FLOAT | — | RO |
| 1040 | 0410 | FA1S41: Holding: Daily Value | FLOAT | — | RO |
| 1041 | 0411 | FA1S42: Holding: Daily Value | FLOAT | — | RO |
| 1042 | 0412 | FA1S43: Holding: Daily Value | FLOAT | — | RO |
| 1043 | 0413 | FA1S44: Holding: Daily Value | FLOAT | — | RO |
| 1044 | 0414 | FA1S45: Holding: Daily Value | FLOAT | — | RO |
| 1045 | 0415 | FA1S46: Holding: Daily Value | FLOAT | — | RO |
| 1046 | 0416 | FA1S47: Holding: Daily Value | FLOAT | — | RO |
| 1047 | 0417 | FA1S48: Holding: Daily Value | FLOAT | — | RO |
| 1048 | 0418 | FA1S49: Holding: Daily Value | FLOAT | — | RO |
| 1049 | 0419 | FA1S50: Holding: Daily Value | FLOAT | — | RO |
| 1050 | 041A | FA1S51: Holding: Daily Value | FLOAT | — | RO |
| 1051 | 041B | FA1S52: Holding: Daily Value | FLOAT | — | RO |
| 1052 | 041C | FA1S53: Holding: Daily Value | FLOAT | — | RO |
| 1053 | 041D | FA1S54: Holding: Daily Value | FLOAT | — | RO |
| 1054 | 041E | FA1S55: Holding: Daily Value | FLOAT | — | RO |
| 1055 | 041F | FA1S56: Holding: Daily Value | FLOAT | — | RO |
| 1056 | 0420 | FA1S57: Holding: Daily Value | FLOAT | — | RO |
| 1057 | 0421 | FA1S58: Holding: Daily Value | FLOAT | — | RO |
| 1058 | 0422 | FA1S59: Holding: Daily Value | FLOAT | — | RO |
| 1059 | 0423 | FA1S60: Holding: Daily Value | FLOAT | — | RO |

Archive 1: Prev Daily Selections (32-bit)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--------------------------------------|-----------|-------|--------|
| 1075 | 0433 | FA1S1: Holding: Previous Daily Value | FLOAT | — | RO |
| 1076 | 0434 | FA1S2: Holding: Previous Daily Value | FLOAT | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------------|-----------|-------|--------|
| 1077 | 0435 | FA1S3: Holding: Previous Daily Value | FLOAT | — | RO |
| 1078 | 0436 | FA1S4: Holding: Previous Daily Value | FLOAT | — | RO |
| 1079 | 0437 | FA1S5: Holding: Previous Daily Value | FLOAT | — | RO |
| 1080 | 0438 | FA1S6: Holding: Previous Daily Value | FLOAT | — | RO |
| 1081 | 0439 | FA1S7: Holding: Previous Daily Value | FLOAT | — | RO |
| 1082 | 043A | FA1S8: Holding: Previous Daily Value | FLOAT | — | RO |
| 1083 | 043B | FA1S9: Holding: Previous Daily Value | FLOAT | — | RO |
| 1084 | 043C | FA1S10: Holding: Previous Daily Value | FLOAT | — | RO |
| 1085 | 043D | FA1S11: Holding: Previous Daily Value | FLOAT | — | RO |
| 1086 | 043E | FA1S12: Holding: Previous Daily Value | FLOAT | — | RO |
| 1087 | 043F | FA1S13: Holding: Previous Daily Value | FLOAT | — | RO |
| 1088 | 0440 | FA1S14: Holding: Previous Daily Value | FLOAT | — | RO |
| 1089 | 0441 | FA1S15: Holding: Previous Daily Value | FLOAT | — | RO |
| 1090 | 0442 | FA1S16: Holding: Previous Daily Value | FLOAT | — | RO |
| 1091 | 0443 | FA1S17: Holding: Previous Daily Value | FLOAT | — | RO |
| 1092 | 0444 | FA1S18: Holding: Previous Daily Value | FLOAT | — | RO |
| 1093 | 0445 | FA1S19: Holding: Previous Daily Value | FLOAT | — | RO |
| 1094 | 0446 | FA1S20: Holding: Previous Daily Value | FLOAT | — | RO |
| 1095 | 0447 | FA1S21: Holding: Previous Daily Value | FLOAT | — | RO |
| 1096 | 0448 | FA1S22: Holding: Previous Daily Value | FLOAT | — | RO |
| 1097 | 0449 | FA1S23: Holding: Previous Daily Value | FLOAT | — | RO |
| 1098 | 044A | FA1S24: Holding: Previous Daily Value | FLOAT | — | RO |
| 1099 | 044B | FA1S25: Holding: Previous Daily Value | FLOAT | — | RO |
| 1100 | 044C | FA1S26: Holding: Previous Daily Value | FLOAT | — | RO |
| 1101 | 044D | FA1S27: Holding: Previous Daily Value | FLOAT | — | RO |
| 1102 | 044E | FA1S28: Holding: Previous Daily Value | FLOAT | — | RO |
| 1103 | 044F | FA1S29: Holding: Previous Daily Value | FLOAT | — | RO |
| 1104 | 0450 | FA1S30: Holding: Previous Daily Value | FLOAT | — | RO |
| 1105 | 0451 | FA1S31: Holding: Previous Daily Value | FLOAT | — | RO |
| 1106 | 0452 | FA1S32: Holding: Previous Daily Value | FLOAT | — | RO |
| 1107 | 0453 | FA1S33: Holding: Previous Daily Value | FLOAT | — | RO |
| 1108 | 0454 | FA1S34: Holding: Previous Daily Value | FLOAT | — | RO |
| 1109 | 0455 | FA1S35: Holding: Previous Daily Value | FLOAT | — | RO |
| 1110 | 0456 | FA1S36: Holding: Previous Daily Value | FLOAT | — | RO |
| 1111 | 0457 | FA1S37: Holding: Previous Daily Value | FLOAT | — | RO |
| 1112 | 0458 | FA1S38: Holding: Previous Daily Value | FLOAT | — | RO |
| 1113 | 0459 | FA1S39: Holding: Previous Daily Value | FLOAT | — | RO |
| 1114 | 045A | FA1S40: Holding: Previous Daily Value | FLOAT | — | RO |
| 1115 | 045B | FA1S41: Holding: Previous Daily Value | FLOAT | — | RO |
| 1116 | 045C | FA1S42: Holding: Previous Daily Value | FLOAT | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------------|-----------|-------|--------|
| 1117 | 045D | FA1S43: Holding: Previous Daily Value | FLOAT | — | RO |
| 1118 | 045E | FA1S44: Holding: Previous Daily Value | FLOAT | — | RO |
| 1119 | 045F | FA1S45: Holding: Previous Daily Value | FLOAT | — | RO |
| 1120 | 0460 | FA1S46: Holding: Previous Daily Value | FLOAT | — | RO |
| 1121 | 0461 | FA1S47: Holding: Previous Daily Value | FLOAT | — | RO |
| 1122 | 0462 | FA1S48: Holding: Previous Daily Value | FLOAT | — | RO |
| 1123 | 0463 | FA1S49: Holding: Previous Daily Value | FLOAT | — | RO |
| 1124 | 0464 | FA1S50: Holding: Previous Daily Value | FLOAT | — | RO |
| 1125 | 0465 | FA1S51: Holding: Previous Daily Value | FLOAT | — | RO |
| 1126 | 0466 | FA1S52: Holding: Previous Daily Value | FLOAT | — | RO |
| 1127 | 0467 | FA1S53: Holding: Previous Daily Value | FLOAT | — | RO |
| 1128 | 0468 | FA1S54: Holding: Previous Daily Value | FLOAT | — | RO |
| 1129 | 0469 | FA1S55: Holding: Previous Daily Value | FLOAT | — | RO |
| 1130 | 046A | FA1S56: Holding: Previous Daily Value | FLOAT | — | RO |
| 1131 | 046B | FA1S57: Holding: Previous Daily Value | FLOAT | — | RO |
| 1132 | 046C | FA1S58: Holding: Previous Daily Value | FLOAT | — | RO |
| 1133 | 046D | FA1S59: Holding: Previous Daily Value | FLOAT | — | RO |
| 1134 | 046E | FA1S60: Holding: Previous Daily Value | FLOAT | — | RO |

Archive 1: Interval Selections (32-bit)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------|-----------|-------|--------|
| 1150 | 047E | FA1S1: Holding: Interval Value | FLOAT | — | RO |
| 1151 | 047F | FA1S2: Holding: Interval Value | FLOAT | — | RO |
| 1152 | 0480 | FA1S3: Holding: Interval Value | FLOAT | — | RO |
| 1153 | 0481 | FA1S4: Holding: Interval Value | FLOAT | — | RO |
| 1154 | 0482 | FA1S5: Holding: Interval Value | FLOAT | — | RO |
| 1155 | 0483 | FA1S6: Holding: Interval Value | FLOAT | — | RO |
| 1156 | 0484 | FA1S7: Holding: Interval Value | FLOAT | — | RO |
| 1157 | 0485 | FA1S8: Holding: Interval Value | FLOAT | — | RO |
| 1158 | 0486 | FA1S9: Holding: Interval Value | FLOAT | — | RO |
| 1159 | 0487 | FA1S10: Holding: Interval Value | FLOAT | — | RO |
| 1160 | 0488 | FA1S11: Holding: Interval Value | FLOAT | — | RO |
| 1161 | 0489 | FA1S12: Holding: Interval Value | FLOAT | — | RO |
| 1162 | 048A | FA1S13: Holding: Interval Value | FLOAT | — | RO |
| 1163 | 048B | FA1S14: Holding: Interval Value | FLOAT | — | RO |
| 1164 | 048C | FA1S15: Holding: Interval Value | FLOAT | — | RO |
| 1165 | 048D | FA1S16: Holding: Interval Value | FLOAT | — | RO |
| 1166 | 048E | FA1S17: Holding: Interval Value | FLOAT | — | RO |
| 1167 | 048F | FA1S18: Holding: Interval Value | FLOAT | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------|-----------|-------|--------|
| 1168 | 0490 | FA1S19: Holding: Interval Value | FLOAT | — | RO |
| 1169 | 0491 | FA1S20: Holding: Interval Value | FLOAT | — | RO |
| 1170 | 0492 | FA1S21: Holding: Interval Value | FLOAT | — | RO |
| 1171 | 0493 | FA1S22: Holding: Interval Value | FLOAT | — | RO |
| 1172 | 0494 | FA1S23: Holding: Interval Value | FLOAT | — | RO |
| 1173 | 0495 | FA1S24: Holding: Interval Value | FLOAT | — | RO |
| 1174 | 0496 | FA1S25: Holding: Interval Value | FLOAT | — | RO |
| 1175 | 0497 | FA1S26: Holding: Interval Value | FLOAT | — | RO |
| 1176 | 0498 | FA1S27: Holding: Interval Value | FLOAT | — | RO |
| 1177 | 0499 | FA1S28: Holding: Interval Value | FLOAT | — | RO |
| 1178 | 049A | FA1S29: Holding: Interval Value | FLOAT | — | RO |
| 1179 | 049B | FA1S30: Holding: Interval Value | FLOAT | — | RO |
| 1180 | 049C | FA1S31: Holding: Interval Value | FLOAT | — | RO |
| 1181 | 049D | FA1S32: Holding: Interval Value | FLOAT | — | RO |
| 1182 | 049E | FA1S33: Holding: Interval Value | FLOAT | — | RO |
| 1183 | 049F | FA1S34: Holding: Interval Value | FLOAT | — | RO |
| 1184 | 04A0 | FA1S35: Holding: Interval Value | FLOAT | — | RO |
| 1185 | 04A1 | FA1S36: Holding: Interval Value | FLOAT | — | RO |
| 1186 | 04A2 | FA1S37: Holding: Interval Value | FLOAT | — | RO |
| 1187 | 04A3 | FA1S38: Holding: Interval Value | FLOAT | — | RO |
| 1188 | 04A4 | FA1S39: Holding: Interval Value | FLOAT | — | RO |
| 1189 | 04A5 | FA1S40: Holding: Interval Value | FLOAT | — | RO |
| 1190 | 04A6 | FA1S41: Holding: Interval Value | FLOAT | — | RO |
| 1191 | 04A7 | FA1S42: Holding: Interval Value | FLOAT | — | RO |
| 1192 | 04A8 | FA1S43: Holding: Interval Value | FLOAT | — | RO |
| 1193 | 04A9 | FA1S44: Holding: Interval Value | FLOAT | — | RO |
| 1194 | 04AA | FA1S45: Holding: Interval Value | FLOAT | — | RO |
| 1195 | 04AB | FA1S46: Holding: Interval Value | FLOAT | — | RO |
| 1196 | 04AC | FA1S47: Holding: Interval Value | FLOAT | — | RO |
| 1197 | 04AD | FA1S48: Holding: Interval Value | FLOAT | — | RO |
| 1198 | 04AE | FA1S49: Holding: Interval Value | FLOAT | — | RO |
| 1199 | 04AF | FA1S50: Holding: Interval Value | FLOAT | — | RO |
| 1200 | 04B0 | FA1S51: Holding: Interval Value | FLOAT | — | RO |
| 1201 | 04B1 | FA1S52: Holding: Interval Value | FLOAT | — | RO |
| 1202 | 04B2 | FA1S53: Holding: Interval Value | FLOAT | — | RO |
| 1203 | 04B3 | FA1S54: Holding: Interval Value | FLOAT | — | RO |
| 1204 | 04B4 | FA1S55: Holding: Interval Value | FLOAT | — | RO |
| 1205 | 04B5 | FA1S56: Holding: Interval Value | FLOAT | — | RO |
| 1206 | 04B6 | FA1S57: Holding: Interval Value | FLOAT | — | RO |
| 1207 | 04B7 | FA1S58: Holding: Interval Value | FLOAT | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------|-----------|-------|--------|
| 1208 | 04B8 | FA1S59: Holding: Interval Value | FLOAT | — | RO |
| 1209 | 04B9 | FA1S60: Holding: Interval Value | FLOAT | — | RO |

Archive 1: Prev Interval Selections (32-bit)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 1225 | 04C9 | FA1S1: Holding: Previous Interval Value | FLOAT | — | RO |
| 1226 | 04CA | FA1S2: Holding: Previous Interval Value | FLOAT | — | RO |
| 1227 | 04CB | FA1S3: Holding: Previous Interval Value | FLOAT | — | RO |
| 1228 | 04CC | FA1S4: Holding: Previous Interval Value | FLOAT | — | RO |
| 1229 | 04CD | FA1S5: Holding: Previous Interval Value | FLOAT | — | RO |
| 1230 | 04CE | FA1S6: Holding: Previous Interval Value | FLOAT | — | RO |
| 1231 | 04CF | FA1S7: Holding: Previous Interval Value | FLOAT | — | RO |
| 1232 | 04D0 | FA1S8: Holding: Previous Interval Value | FLOAT | — | RO |
| 1233 | 04D1 | FA1S9: Holding: Previous Interval Value | FLOAT | — | RO |
| 1234 | 04D2 | FA1S10: Holding: Previous Interval Value | FLOAT | — | RO |
| 1235 | 04D3 | FA1S11: Holding: Previous Interval Value | FLOAT | — | RO |
| 1236 | 04D4 | FA1S12: Holding: Previous Interval Value | FLOAT | — | RO |
| 1237 | 04D5 | FA1S13: Holding: Previous Interval Value | FLOAT | — | RO |
| 1238 | 04D6 | FA1S14: Holding: Previous Interval Value | FLOAT | — | RO |
| 1239 | 04D7 | FA1S15: Holding: Previous Interval Value | FLOAT | — | RO |
| 1240 | 04D8 | FA1S16: Holding: Previous Interval Value | FLOAT | — | RO |
| 1241 | 04D9 | FA1S17: Holding: Previous Interval Value | FLOAT | — | RO |
| 1242 | 04DA | FA1S18: Holding: Previous Interval Value | FLOAT | — | RO |
| 1243 | 04DB | FA1S19: Holding: Previous Interval Value | FLOAT | — | RO |
| 1244 | 04DC | FA1S20: Holding: Previous Interval Value | FLOAT | — | RO |
| 1245 | 04DD | FA1S21: Holding: Previous Interval Value | FLOAT | — | RO |
| 1246 | 04DE | FA1S22: Holding: Previous Interval Value | FLOAT | — | RO |
| 1247 | 04DF | FA1S23: Holding: Previous Interval Value | FLOAT | — | RO |
| 1248 | 04E0 | FA1S24: Holding: Previous Interval Value | FLOAT | — | RO |
| 1249 | 04E1 | FA1S25: Holding: Previous Interval Value | FLOAT | — | RO |
| 1250 | 04E2 | FA1S26: Holding: Previous Interval Value | FLOAT | — | RO |
| 1251 | 04E3 | FA1S27: Holding: Previous Interval Value | FLOAT | — | RO |
| 1252 | 04E4 | FA1S28: Holding: Previous Interval Value | FLOAT | — | RO |
| 1253 | 04E5 | FA1S29: Holding: Previous Interval Value | FLOAT | — | RO |
| 1254 | 04E6 | FA1S30: Holding: Previous Interval Value | FLOAT | — | RO |
| 1255 | 04E7 | FA1S31: Holding: Previous Interval Value | FLOAT | — | RO |
| 1256 | 04E8 | FA1S32: Holding: Previous Interval Value | FLOAT | — | RO |
| 1257 | 04E9 | FA1S33: Holding: Previous Interval Value | FLOAT | — | RO |
| 1258 | 04EA | FA1S34: Holding: Previous Interval Value | FLOAT | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 1259 | 04EB | FA1S35: Holding: Previous Interval Value | FLOAT | — | RO |
| 1260 | 04EC | FA1S36: Holding: Previous Interval Value | FLOAT | — | RO |
| 1261 | 04ED | FA1S37: Holding: Previous Interval Value | FLOAT | — | RO |
| 1262 | 04EE | FA1S38: Holding: Previous Interval Value | FLOAT | — | RO |
| 1263 | 04EF | FA1S39: Holding: Previous Interval Value | FLOAT | — | RO |
| 1264 | 04F0 | FA1S40: Holding: Previous Interval Value | FLOAT | — | RO |
| 1265 | 04F1 | FA1S41: Holding: Previous Interval Value | FLOAT | — | RO |
| 1266 | 04F2 | FA1S42: Holding: Previous Interval Value | FLOAT | — | RO |
| 1267 | 04F3 | FA1S43: Holding: Previous Interval Value | FLOAT | — | RO |
| 1268 | 04F4 | FA1S44: Holding: Previous Interval Value | FLOAT | — | RO |
| 1269 | 04F5 | FA1S45: Holding: Previous Interval Value | FLOAT | — | RO |
| 1270 | 04F6 | FA1S46: Holding: Previous Interval Value | FLOAT | — | RO |
| 1271 | 04F7 | FA1S47: Holding: Previous Interval Value | FLOAT | — | RO |
| 1272 | 04F8 | FA1S48: Holding: Previous Interval Value | FLOAT | — | RO |
| 1273 | 04F9 | FA1S49: Holding: Previous Interval Value | FLOAT | — | RO |
| 1274 | 04FA | FA1S50: Holding: Previous Interval Value | FLOAT | — | RO |
| 1275 | 04FB | FA1S51: Holding: Previous Interval Value | FLOAT | — | RO |
| 1276 | 04FC | FA1S52: Holding: Previous Interval Value | FLOAT | — | RO |
| 1277 | 04FD | FA1S53: Holding: Previous Interval Value | FLOAT | — | RO |
| 1278 | 04FE | FA1S54: Holding: Previous Interval Value | FLOAT | — | RO |
| 1279 | 04FF | FA1S55: Holding: Previous Interval Value | FLOAT | — | RO |
| 1280 | 0500 | FA1S56: Holding: Previous Interval Value | FLOAT | — | RO |
| 1281 | 0501 | FA1S57: Holding: Previous Interval Value | FLOAT | — | RO |
| 1282 | 0502 | FA1S58: Holding: Previous Interval Value | FLOAT | — | RO |
| 1283 | 0503 | FA1S59: Holding: Previous Interval Value | FLOAT | — | RO |
| 1284 | 0504 | FA1S60: Holding: Previous Interval Value | FLOAT | — | RO |

Archive 2: Daily Selections (32-bit)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|------------------------------|-----------|-------|--------|
| 1300 | 0514 | FA2S1: Holding: Daily Value | FLOAT | — | RO |
| 1301 | 0515 | FA2S2: Holding: Daily Value | FLOAT | — | RO |
| 1302 | 0516 | FA2S3: Holding: Daily Value | FLOAT | — | RO |
| 1303 | 0517 | FA2S4: Holding: Daily Value | FLOAT | — | RO |
| 1304 | 0518 | FA2S5: Holding: Daily Value | FLOAT | — | RO |
| 1305 | 0519 | FA2S6: Holding: Daily Value | FLOAT | — | RO |
| 1306 | 051A | FA2S7: Holding: Daily Value | FLOAT | — | RO |
| 1307 | 051B | FA2S8: Holding: Daily Value | FLOAT | — | RO |
| 1308 | 051C | FA2S9: Holding: Daily Value | FLOAT | — | RO |
| 1309 | 051D | FA2S10: Holding: Daily Value | FLOAT | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|------------------------------|-----------|-------|--------|
| 1310 | 051E | FA2S11: Holding: Daily Value | FLOAT | — | RO |
| 1311 | 051F | FA2S12: Holding: Daily Value | FLOAT | — | RO |
| 1312 | 0520 | FA2S13: Holding: Daily Value | FLOAT | — | RO |
| 1313 | 0521 | FA2S14: Holding: Daily Value | FLOAT | — | RO |
| 1314 | 0522 | FA2S15: Holding: Daily Value | FLOAT | — | RO |
| 1315 | 0523 | FA2S16: Holding: Daily Value | FLOAT | — | RO |
| 1316 | 0524 | FA2S17: Holding: Daily Value | FLOAT | — | RO |
| 1317 | 0525 | FA2S18: Holding: Daily Value | FLOAT | — | RO |
| 1318 | 0526 | FA2S19: Holding: Daily Value | FLOAT | — | RO |
| 1319 | 0527 | FA2S20: Holding: Daily Value | FLOAT | — | RO |
| 1320 | 0528 | FA2S21: Holding: Daily Value | FLOAT | — | RO |
| 1321 | 0529 | FA2S22: Holding: Daily Value | FLOAT | — | RO |
| 1322 | 052A | FA2S23: Holding: Daily Value | FLOAT | — | RO |
| 1323 | 052B | FA2S24: Holding: Daily Value | FLOAT | — | RO |
| 1324 | 052C | FA2S25: Holding: Daily Value | FLOAT | — | RO |
| 1325 | 052D | FA2S26: Holding: Daily Value | FLOAT | — | RO |
| 1326 | 052E | FA2S27: Holding: Daily Value | FLOAT | — | RO |
| 1327 | 052F | FA2S28: Holding: Daily Value | FLOAT | — | RO |
| 1328 | 0530 | FA2S29: Holding: Daily Value | FLOAT | — | RO |
| 1329 | 0531 | FA1S30: Holding: Daily Value | FLOAT | — | RO |
| 1330 | 0532 | FA2S31: Holding: Daily Value | FLOAT | — | RO |
| 1331 | 0533 | FA2S32: Holding: Daily Value | FLOAT | — | RO |
| 1332 | 0534 | FA2S33: Holding: Daily Value | FLOAT | — | RO |
| 1333 | 0535 | FA2S34: Holding: Daily Value | FLOAT | — | RO |
| 1334 | 0536 | FA2S35: Holding: Daily Value | FLOAT | — | RO |
| 1335 | 0537 | FA2S36: Holding: Daily Value | FLOAT | — | RO |
| 1336 | 0538 | FA2S37: Holding: Daily Value | FLOAT | — | RO |
| 1337 | 0539 | FA2S38: Holding: Daily Value | FLOAT | — | RO |
| 1338 | 053A | FA2S39: Holding: Daily Value | FLOAT | — | RO |
| 1339 | 053B | FA2S40: Holding: Daily Value | FLOAT | — | RO |
| 1340 | 053C | FA2S41: Holding: Daily Value | FLOAT | — | RO |
| 1341 | 053D | FA2S42: Holding: Daily Value | FLOAT | — | RO |
| 1342 | 053E | FA2S43: Holding: Daily Value | FLOAT | — | RO |
| 1343 | 053F | FA2S44: Holding: Daily Value | FLOAT | — | RO |
| 1344 | 0540 | FA2S45: Holding: Daily Value | FLOAT | — | RO |
| 1345 | 0541 | FA2S46: Holding: Daily Value | FLOAT | — | RO |
| 1346 | 0542 | FA2S47: Holding: Daily Value | FLOAT | — | RO |
| 1347 | 0543 | FA2S48: Holding: Daily Value | FLOAT | — | RO |
| 1348 | 0544 | FA2S49: Holding: Daily Value | FLOAT | — | RO |
| 1349 | 0545 | FA2S50: Holding: Daily Value | FLOAT | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|------------------------------|-----------|-------|--------|
| 1350 | 0546 | FA2S51: Holding: Daily Value | FLOAT | — | RO |
| 1351 | 0547 | FA2S52: Holding: Daily Value | FLOAT | — | RO |
| 1352 | 0548 | FA2S53: Holding: Daily Value | FLOAT | — | RO |
| 1353 | 0549 | FA2S54: Holding: Daily Value | FLOAT | — | RO |
| 1354 | 054A | FA2S55: Holding: Daily Value | FLOAT | — | RO |
| 1355 | 054B | FA2S56: Holding: Daily Value | FLOAT | — | RO |
| 1356 | 054C | FA2S57: Holding: Daily Value | FLOAT | — | RO |
| 1357 | 054D | FA2S58: Holding: Daily Value | FLOAT | — | RO |
| 1358 | 054E | FA2S59: Holding: Daily Value | FLOAT | — | RO |
| 1359 | 054F | FA2S60: Holding: Daily Value | FLOAT | — | RO |

Archive 2: Prev Daily Selections (32-bit)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------------|-----------|-------|--------|
| 1375 | 055F | FA2S1: Holding: Previous Daily Value | FLOAT | — | RO |
| 1376 | 0560 | FA2S2: Holding: Previous Daily Value | FLOAT | — | RO |
| 1377 | 0561 | FA2S3: Holding: Previous Daily Value | FLOAT | — | RO |
| 1378 | 0562 | FA2S4: Holding: Previous Daily Value | FLOAT | — | RO |
| 1379 | 0563 | FA2S5: Holding: Previous Daily Value | FLOAT | — | RO |
| 1380 | 0564 | FA2S6: Holding: Previous Daily Value | FLOAT | — | RO |
| 1381 | 0565 | FA2S7: Holding: Previous Daily Value | FLOAT | — | RO |
| 1382 | 0566 | FA2S8: Holding: Previous Daily Value | FLOAT | — | RO |
| 1383 | 0567 | FA2S9: Holding: Previous Daily Value | FLOAT | — | RO |
| 1384 | 0568 | FA2S10: Holding: Previous Daily Value | FLOAT | — | RO |
| 1385 | 0569 | FA2S11: Holding: Previous Daily Value | FLOAT | — | RO |
| 1386 | 056A | FA2S12: Holding: Previous Daily Value | FLOAT | — | RO |
| 1387 | 056B | FA2S13: Holding: Previous Daily Value | FLOAT | — | RO |
| 1388 | 056C | FA2S14: Holding: Previous Daily Value | FLOAT | — | RO |
| 1389 | 056D | FA2S15: Holding: Previous Daily Value | FLOAT | — | RO |
| 1390 | 056E | FA2S16: Holding: Previous Daily Value | FLOAT | — | RO |
| 1391 | 056F | FA2S17: Holding: Previous Daily Value | FLOAT | — | RO |
| 1392 | 0570 | FA2S18: Holding: Previous Daily Value | FLOAT | — | RO |
| 1393 | 0571 | FA2S19: Holding: Previous Daily Value | FLOAT | — | RO |
| 1394 | 0572 | FA2S20: Holding: Previous Daily Value | FLOAT | — | RO |
| 1395 | 0573 | FA2S21: Holding: Previous Daily Value | FLOAT | — | RO |
| 1396 | 0574 | FA2S22: Holding: Previous Daily Value | FLOAT | — | RO |
| 1397 | 0575 | FA2S23: Holding: Previous Daily Value | FLOAT | — | RO |
| 1398 | 0576 | FA2S24: Holding: Previous Daily Value | FLOAT | — | RO |
| 1399 | 0577 | FA2S25: Holding: Previous Daily Value | FLOAT | — | RO |
| 1400 | 0578 | FA2S26: Holding: Previous Daily Value | FLOAT | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------------|-----------|-------|--------|
| 1401 | 0579 | FA2S27: Holding: Previous Daily Value | FLOAT | — | RO |
| 1402 | 057A | FA2S28: Holding: Previous Daily Value | FLOAT | — | RO |
| 1403 | 057B | FA2S29: Holding: Previous Daily Value | FLOAT | — | RO |
| 1404 | 057C | FA2S30: Holding: Previous Daily Value | FLOAT | — | RO |
| 1405 | 057D | FA2S31: Holding: Previous Daily Value | FLOAT | — | RO |
| 1406 | 057E | FA2S32: Holding: Previous Daily Value | FLOAT | — | RO |
| 1407 | 057F | FA2S33: Holding: Previous Daily Value | FLOAT | — | RO |
| 1408 | 0580 | FA2S34: Holding: Previous Daily Value | FLOAT | — | RO |
| 1409 | 0581 | FA2S35: Holding: Previous Daily Value | FLOAT | — | RO |
| 1410 | 0582 | FA2S36: Holding: Previous Daily Value | FLOAT | — | RO |
| 1411 | 0583 | FA2S37: Holding: Previous Daily Value | FLOAT | — | RO |
| 1412 | 0584 | FA2S38: Holding: Previous Daily Value | FLOAT | — | RO |
| 1413 | 0585 | FA2S39: Holding: Previous Daily Value | FLOAT | — | RO |
| 1414 | 0586 | FA2S40: Holding: Previous Daily Value | FLOAT | — | RO |
| 1415 | 0587 | FA2S41: Holding: Previous Daily Value | FLOAT | — | RO |
| 1416 | 0588 | FA2S42: Holding: Previous Daily Value | FLOAT | — | RO |
| 1417 | 0589 | FA2S43: Holding: Previous Daily Value | FLOAT | — | RO |
| 1418 | 058A | FA2S44: Holding: Previous Daily Value | FLOAT | — | RO |
| 1419 | 058B | FA2S45: Holding: Previous Daily Value | FLOAT | — | RO |
| 1420 | 058C | FA2S46: Holding: Previous Daily Value | FLOAT | — | RO |
| 1421 | 058D | FA2S47: Holding: Previous Daily Value | FLOAT | — | RO |
| 1422 | 058E | FA2S48: Holding: Previous Daily Value | FLOAT | — | RO |
| 1423 | 058F | FA2S49: Holding: Previous Daily Value | FLOAT | — | RO |
| 1424 | 0590 | FA2S50: Holding: Previous Daily Value | FLOAT | — | RO |
| 1425 | 0591 | FA2S51: Holding: Previous Daily Value | FLOAT | — | RO |
| 1426 | 0592 | FA2S52: Holding: Previous Daily Value | FLOAT | — | RO |
| 1427 | 0593 | FA2S53: Holding: Previous Daily Value | FLOAT | — | RO |
| 1428 | 0594 | FA2S54: Holding: Previous Daily Value | FLOAT | — | RO |
| 1429 | 0595 | FA2S55: Holding: Previous Daily Value | FLOAT | — | RO |
| 1430 | 0596 | FA2S56: Holding: Previous Daily Value | FLOAT | — | RO |
| 1431 | 0597 | FA2S57: Holding: Previous Daily Value | FLOAT | — | RO |
| 1432 | 0598 | FA2S58: Holding: Previous Daily Value | FLOAT | — | RO |
| 1433 | 0599 | FA2S59: Holding: Previous Daily Value | FLOAT | — | RO |
| 1434 | 059A | FA2S60: Holding: Previous Daily Value | FLOAT | — | RO |

Archive 2: Interval Selections (32-bit)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--------------------------------|-----------|-------|--------|
| 1450 | 05AA | FA2S1: Holding: Interval Value | FLOAT | — | RO |
| 1451 | 05AB | FA2S2: Holding: Interval Value | FLOAT | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------|-----------|-------|--------|
| 1452 | 05AC | FA2S3: Holding: Interval Value | FLOAT | — | RO |
| 1453 | 05AD | FA2S4: Holding: Interval Value | FLOAT | — | RO |
| 1454 | 05AE | FA2S5: Holding: Interval Value | FLOAT | — | RO |
| 1455 | 05AF | FA2S6: Holding: Interval Value | FLOAT | — | RO |
| 1456 | 05B0 | FA2S7: Holding: Interval Value | FLOAT | — | RO |
| 1457 | 05B1 | FA2S8: Holding: Interval Value | FLOAT | — | RO |
| 1458 | 05B2 | FA2S9: Holding: Interval Value | FLOAT | — | RO |
| 1459 | 05B3 | FA2S10: Holding: Interval Value | FLOAT | — | RO |
| 1460 | 05B4 | FA2S11: Holding: Interval Value | FLOAT | — | RO |
| 1461 | 05B5 | FA2S12: Holding: Interval Value | FLOAT | — | RO |
| 1462 | 05B6 | FA2S13: Holding: Interval Value | FLOAT | — | RO |
| 1463 | 05B7 | FA2S14: Holding: Interval Value | FLOAT | — | RO |
| 1464 | 05B8 | FA2S15: Holding: Interval Value | FLOAT | — | RO |
| 1465 | 05B9 | FA2S16: Holding: Interval Value | FLOAT | — | RO |
| 1466 | 05BA | FA2S17: Holding: Interval Value | FLOAT | — | RO |
| 1467 | 05BB | FA2S18: Holding: Interval Value | FLOAT | — | RO |
| 1468 | 05BC | FA2S19: Holding: Interval Value | FLOAT | — | RO |
| 1469 | 05BD | FA2S20: Holding: Interval Value | FLOAT | — | RO |
| 1470 | 05BE | FA2S21: Holding: Interval Value | FLOAT | — | RO |
| 1471 | 05BF | FA2S22: Holding: Interval Value | FLOAT | — | RO |
| 1472 | 05C0 | FA2S23: Holding: Interval Value | FLOAT | — | RO |
| 1473 | 05C1 | FA2S24: Holding: Interval Value | FLOAT | — | RO |
| 1474 | 05C2 | FA2S25: Holding: Interval Value | FLOAT | — | RO |
| 1475 | 05C3 | FA2S26: Holding: Interval Value | FLOAT | — | RO |
| 1476 | 05C4 | FA2S27: Holding: Interval Value | FLOAT | — | RO |
| 1477 | 05C5 | FA2S28: Holding: Interval Value | FLOAT | — | RO |
| 1478 | 05C6 | FA2S29: Holding: Interval Value | FLOAT | — | RO |
| 1479 | 05C7 | FA2S30: Holding: Interval Value | FLOAT | — | RO |
| 1480 | 05C8 | FA2S31: Holding: Interval Value | FLOAT | — | RO |
| 1481 | 05C9 | FA2S32: Holding: Interval Value | FLOAT | — | RO |
| 1482 | 05CA | FA2S33: Holding: Interval Value | FLOAT | — | RO |
| 1483 | 05CB | FA2S34: Holding: Interval Value | FLOAT | — | RO |
| 1484 | 05CC | FA2S35: Holding: Interval Value | FLOAT | — | RO |
| 1485 | 05CD | FA2S36: Holding: Interval Value | FLOAT | — | RO |
| 1486 | 05CE | FA2S37: Holding: Interval Value | FLOAT | — | RO |
| 1487 | 05CF | FA2S38: Holding: Interval Value | FLOAT | — | RO |
| 1488 | 05D0 | FA2S39: Holding: Interval Value | FLOAT | — | RO |
| 1489 | 05D1 | FA2S40: Holding: Interval Value | FLOAT | — | RO |
| 1490 | 05D2 | FA2S41: Holding: Interval Value | FLOAT | — | RO |
| 1491 | 05D3 | FA2S42: Holding: Interval Value | FLOAT | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------|-----------|-------|--------|
| 1492 | 05D4 | FA2S43: Holding: Interval Value | FLOAT | — | RO |
| 1493 | 05D5 | FA2S44: Holding: Interval Value | FLOAT | — | RO |
| 1494 | 05D6 | FA2S45: Holding: Interval Value | FLOAT | — | RO |
| 1495 | 05D7 | FA2S46: Holding: Interval Value | FLOAT | — | RO |
| 1496 | 05D8 | FA2S47: Holding: Interval Value | FLOAT | — | RO |
| 1497 | 05D9 | FA2S48: Holding: Interval Value | FLOAT | — | RO |
| 1498 | 05DA | FA2S49: Holding: Interval Value | FLOAT | — | RO |
| 1499 | 05DB | FA2S50: Holding: Interval Value | FLOAT | — | RO |
| 1500 | 05DC | FA2S51: Holding: Interval Value | FLOAT | — | RO |
| 1501 | 05DD | FA2S52: Holding: Interval Value | FLOAT | — | RO |
| 1502 | 05DE | FA2S53: Holding: Interval Value | FLOAT | — | RO |
| 1503 | 05DF | FA2S54: Holding: Interval Value | FLOAT | — | RO |
| 1504 | 05E0 | FA2S55: Holding: Interval Value | FLOAT | — | RO |
| 1505 | 05E1 | FA2S56: Holding: Interval Value | FLOAT | — | RO |
| 1506 | 05E2 | FA2S57: Holding: Interval Value | FLOAT | — | RO |
| 1507 | 05E3 | FA2S58: Holding: Interval Value | FLOAT | — | RO |
| 1508 | 05E4 | FA2S59: Holding: Interval Value | FLOAT | — | RO |
| 1509 | 05E5 | FA2S60: Holding: Interval Value | FLOAT | — | RO |

Archive 2: Prev Interval Selections (32-bit)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 1525 | 05F5 | FA2S1: Holding: Previous Interval Value | FLOAT | — | RO |
| 1526 | 05F6 | FA2S2: Holding: Previous Interval Value | FLOAT | — | RO |
| 1527 | 05F7 | FA2S3: Holding: Previous Interval Value | FLOAT | — | RO |
| 1528 | 05F8 | FA2S4: Holding: Previous Interval Value | FLOAT | — | RO |
| 1529 | 05F9 | FA2S5: Holding: Previous Interval Value | FLOAT | — | RO |
| 1530 | 05FA | FA2S6: Holding: Previous Interval Value | FLOAT | — | RO |
| 1531 | 05FB | FA2S7: Holding: Previous Interval Value | FLOAT | — | RO |
| 1532 | 05FC | FA2S8: Holding: Previous Interval Value | FLOAT | — | RO |
| 1533 | 05FD | FA2S9: Holding: Previous Interval Value | FLOAT | — | RO |
| 1534 | 05FE | FA2S10: Holding: Previous Interval Value | FLOAT | — | RO |
| 1535 | 05FF | FA2S11: Holding: Previous Interval Value | FLOAT | — | RO |
| 1536 | 0600 | FA2S12: Holding: Previous Interval Value | FLOAT | — | RO |
| 1537 | 0601 | FA2S13: Holding: Previous Interval Value | FLOAT | — | RO |
| 1538 | 0602 | FA2S14: Holding: Previous Interval Value | FLOAT | — | RO |
| 1539 | 0603 | FA2S15: Holding: Previous Interval Value | FLOAT | — | RO |
| 1540 | 0604 | FA2S16: Holding: Previous Interval Value | FLOAT | — | RO |
| 1541 | 0605 | FA2S17: Holding: Previous Interval Value | FLOAT | — | RO |
| 1542 | 0606 | FA2S18: Holding: Previous Interval Value | FLOAT | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 1543 | 0607 | FA2S19: Holding: Previous Interval Value | FLOAT | — | RO |
| 1544 | 0608 | FA2S20: Holding: Previous Interval Value | FLOAT | — | RO |
| 1545 | 0609 | FA2S21: Holding: Previous Interval Value | FLOAT | — | RO |
| 1546 | 060A | FA2S22: Holding: Previous Interval Value | FLOAT | — | RO |
| 1547 | 060B | FA2S23: Holding: Previous Interval Value | FLOAT | — | RO |
| 1548 | 060C | FA2S24: Holding: Previous Interval Value | FLOAT | — | RO |
| 1549 | 060D | FA2S25: Holding: Previous Interval Value | FLOAT | — | RO |
| 1550 | 060E | FA2S26: Holding: Previous Interval Value | FLOAT | — | RO |
| 1551 | 060F | FA2S27: Holding: Previous Interval Value | FLOAT | — | RO |
| 1552 | 0610 | FA2S28: Holding: Previous Interval Value | FLOAT | — | RO |
| 1553 | 0611 | FA2S29: Holding: Previous Interval Value | FLOAT | — | RO |
| 1554 | 0612 | FA2S30: Holding: Previous Interval Value | FLOAT | — | RO |
| 1555 | 0613 | FA2S31: Holding: Previous Interval Value | FLOAT | — | RO |
| 1556 | 0614 | FA2S32: Holding: Previous Interval Value | FLOAT | — | RO |
| 1557 | 0615 | FA2S33: Holding: Previous Interval Value | FLOAT | — | RO |
| 1558 | 0616 | FA2S34: Holding: Previous Interval Value | FLOAT | — | RO |
| 1559 | 0617 | FA2S35: Holding: Previous Interval Value | FLOAT | — | RO |
| 1560 | 0618 | FA2S36: Holding: Previous Interval Value | FLOAT | — | RO |
| 1561 | 0619 | FA2S37: Holding: Previous Interval Value | FLOAT | — | RO |
| 1562 | 061A | FA2S38: Holding: Previous Interval Value | FLOAT | — | RO |
| 1563 | 061B | FA2S39: Holding: Previous Interval Value | FLOAT | — | RO |
| 1564 | 061C | FA2S40: Holding: Previous Interval Value | FLOAT | — | RO |
| 1565 | 061D | FA2S41: Holding: Previous Interval Value | FLOAT | — | RO |
| 1566 | 061E | FA2S42: Holding: Previous Interval Value | FLOAT | — | RO |
| 1567 | 061F | FA2S43: Holding: Previous Interval Value | FLOAT | — | RO |
| 1568 | 0620 | FA2S44: Holding: Previous Interval Value | FLOAT | — | RO |
| 1569 | 0621 | FA2S45: Holding: Previous Interval Value | FLOAT | — | RO |
| 1570 | 0622 | FA2S46: Holding: Previous Interval Value | FLOAT | — | RO |
| 1571 | 0623 | FA2S47: Holding: Previous Interval Value | FLOAT | — | RO |
| 1572 | 0624 | FA2S48: Holding: Previous Interval Value | FLOAT | — | RO |
| 1573 | 0625 | FA2S49: Holding: Previous Interval Value | FLOAT | — | RO |
| 1574 | 0626 | FA2S50: Holding: Previous Interval Value | FLOAT | — | RO |
| 1575 | 0627 | FA2S51: Holding: Previous Interval Value | FLOAT | — | RO |
| 1576 | 0628 | FA2S52: Holding: Previous Interval Value | FLOAT | — | RO |
| 1577 | 0629 | FA2S53: Holding: Previous Interval Value | FLOAT | — | RO |
| 1578 | 062A | FA2S54: Holding: Previous Interval Value | FLOAT | — | RO |
| 1579 | 062B | FA2S55: Holding: Previous Interval Value | FLOAT | — | RO |
| 1580 | 062C | FA2S56: Holding: Previous Interval Value | FLOAT | — | RO |
| 1581 | 062D | FA2S57: Holding: Previous Interval Value | FLOAT | — | RO |
| 1582 | 062E | FA2S58: Holding: Previous Interval Value | FLOAT | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 1583 | 062F | FA2S59: Holding: Previous Interval Value | FLOAT | — | RO |
| 1584 | 0630 | FA2S60: Holding: Previous Interval Value | FLOAT | — | RO |

Triggered Selections (32-bit)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------|-----------|-------|--------|
| 1600 | 0640 | TAS1: Holding: Triggered Value | FLOAT | — | RO |
| 1601 | 0641 | TAS2: Holding: Triggered Value | FLOAT | — | RO |
| 1602 | 0642 | TAS3: Holding: Triggered Value | FLOAT | — | RO |
| 1603 | 0643 | TAS4: Holding: Triggered Value | FLOAT | — | RO |
| 1604 | 0644 | TAS5: Holding: Triggered Value | FLOAT | — | RO |
| 1605 | 0645 | TAS6: Holding: Triggered Value | FLOAT | — | RO |
| 1606 | 0646 | TAS7: Holding: Triggered Value | FLOAT | — | RO |
| 1607 | 0647 | TAS8: Holding: Triggered Value | FLOAT | — | RO |
| 1608 | 0648 | TAS9: Holding: Triggered Value | FLOAT | — | RO |
| 1609 | 0649 | TAS10: Holding: Triggered Value | FLOAT | — | RO |
| 1610 | 064A | TAS11: Holding: Triggered Value | FLOAT | — | RO |
| 1611 | 064B | TAS12: Holding: Triggered Value | FLOAT | — | RO |
| 1612 | 064C | TAS13: Holding: Triggered Value | FLOAT | — | RO |
| 1613 | 064D | TAS14: Holding: Triggered Value | FLOAT | — | RO |
| 1614 | 064E | TAS15: Holding: Triggered Value | FLOAT | — | RO |
| 1615 | 064F | TAS16: Holding: Triggered Value | FLOAT | — | RO |
| 1616 | 0650 | TAS17: Holding: Triggered Value | FLOAT | — | RO |
| 1617 | 0651 | TAS18: Holding: Triggered Value | FLOAT | — | RO |
| 1618 | 0652 | TAS19: Holding: Triggered Value | FLOAT | — | RO |
| 1619 | 0653 | TAS20: Holding: Triggered Value | FLOAT | — | RO |

Prev Triggered Selections (32-bit)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------|-----------|-------|--------|
| 1650 | 0672 | TAS1: Holding: Triggered Value | FLOAT | — | RO |
| 1651 | 0673 | TAS2: Holding: Triggered Value | FLOAT | — | RO |
| 1652 | 0674 | TAS3: Holding: Triggered Value | FLOAT | — | RO |
| 1653 | 0675 | TAS4: Holding: Triggered Value | FLOAT | — | RO |
| 1654 | 0676 | TAS5: Holding: Triggered Value | FLOAT | — | RO |
| 1655 | 0677 | TAS6: Holding: Triggered Value | FLOAT | — | RO |
| 1656 | 0678 | TAS7: Holding: Triggered Value | FLOAT | — | RO |
| 1657 | 0679 | TAS8: Holding: Triggered Value | FLOAT | — | RO |
| 1658 | 067A | TAS9: Holding: Triggered Value | FLOAT | — | RO |
| 1659 | 067B | TAS10: Holding: Triggered Value | FLOAT | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------|-----------|-------|--------|
| 1660 | 067C | TAS11: Holding: Triggered Value | FLOAT | — | RO |
| 1661 | 067D | TAS12: Holding: Triggered Value | FLOAT | — | RO |
| 1662 | 067E | TAS13: Holding: Triggered Value | FLOAT | — | RO |
| 1663 | 067F | TAS14: Holding: Triggered Value | FLOAT | — | RO |
| 1664 | 0680 | TAS15: Holding: Triggered Value | FLOAT | — | RO |
| 1665 | 0681 | TAS16: Holding: Triggered Value | FLOAT | — | RO |
| 1666 | 0682 | TAS17: Holding: Triggered Value | FLOAT | — | RO |
| 1667 | 0683 | TAS18: Holding: Triggered Value | FLOAT | — | RO |
| 1668 | 0684 | TAS19: Holding: Triggered Value | FLOAT | — | RO |
| 1669 | 0685 | TAS20: Holding: Triggered Value | FLOAT | — | RO |

Status

The device status includes alarm statuses and diagnostic information, such as input status and calculation status.

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 5001 | 1389 | Alarm Status: Alarm Check Status | INT32 | — | RO |
| 5002 | 138A | Alarm Status: Alarm High | INT32 | — | RO |
| 5003 | 138B | Alarm Status: Alarm Low | INT32 | — | RO |
| 5004 | 138C | Alarm Status: Alarm High Or Low | INT32 | — | RO |
| 5005 | 138D | Alarm Status: Unacknowledged | INT32 | — | RO |
| 5006 | 138E | Alarm Status: Daily Alarm | INT32 | — | RO |
| 5007 | 138F | Alarm Status: Interval Alarm | INT32 | — | RO |
| 5008 | 1390 | Alarm Status: Triggered Alarm | INT32 | — | RO |
| 5009 | 1391 | Alarm Status: Previous Daily | INT32 | — | RO |
| 5010 | 1392 | Alarm Status: Previous Interval | INT32 | — | RO |
| 5011 | 1393 | Alarm Status: Previous Trigger | INT32 | — | RO |
| 5012 | 1394 | Differential Pressure: Holding: Status | INT32 | — | RO |
| 5013 | 1395 | Static Pressure: Holding: Status | INT32 | — | RO |
| 5014 | 1396 | RTD1: Holding: Status | INT32 | — | RO |
| 5015 | 1397 | RTD2: Holding: Status | INT32 | — | RO |
| 5016 | 1398 | Analog 1: Holding: Status | INT32 | — | RO |
| 5017 | 1399 | Analog 2: Holding: Status | INT32 | — | RO |
| 5018 | 139A | Analog 3: Holding: Status | INT32 | — | RO |
| 5019 | 139B | Analog 4: Holding: Status | INT32 | — | RO |
| 5020 | 139C | Pulse Input 1: Holding: Status | INT32 | — | RO |
| 5021 | 139D | Pulse Input 2: Holding: Status | INT32 | — | RO |
| 5022 | 139E | Pulse Input 3: Holding: Status | INT32 | — | RO |
| 5023 | 139F | Flow Run 1: HAccum: Flow Run Status | INT32 | — | RO |
| 5024 | 13A0 | Flow Run 1: HFluid: Status | INT32 | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-------|--------|
| 5025 | 13A1 | Flow Run 1: HFlow: Status | INT32 | — | RO |
| 5026 | 13A2 | Flow Run 2: HAccum: Flow Run Status | INT32 | — | RO |
| 5027 | 13A3 | Flow Run 2: HFluid: Status | INT32 | — | RO |
| 5028 | 13A4 | Flow Run 2: HFlow: Status | INT32 | — | RO |
| 5029 | 13A5 | Gas Stream 1: Holding: Status | INT32 | — | RO |
| 5030 | 13A6 | Gas Stream 2: Holding: Status | INT32 | — | RO |
| 5031 | 13A7 | Analog Output 1 PID: Holding: Status | INT32 | — | RO |
| 5032 | 13A8 | Analog Output 2 PID: Holding: Status | INT32 | — | RO |
| 5033 | 13A9 | Slave Device 1: Status: Device Com. Status | INT32 | — | RO |
| 5034 | 13AA | Slave Device 2: Status: Device Com. Status | INT32 | — | RO |
| 5035 | 13AB | Slave Device 3: Status: Device Com. Status | INT32 | — | RO |
| 5036 | 13AC | Slave Device 4: Status: Device Com. Status | INT32 | — | RO |
| 5037 | 13AD | Slave Device 5: Status: Device Com. Status | INT32 | — | RO |
| 5038 | 13AE | Slave Device 6: Status: Device Com. Status | INT32 | — | RO |
| 5039 | 13AF | Slave Device 7: Status: Device Com. Status | INT32 | — | RO |
| 5040 | 13B0 | Slave Device 8: Status: Device Com. Status | INT32 | — | RO |
| 5041 | 13B1 | Slave Device 9: Status: Device Com. Status | INT32 | — | RO |
| 5042 | 13B2 | Slave Device 10: Status: Device Com. Status | INT32 | — | RO |
| 5043 | 13B3 | Slave Device 11: Status: Device Com. Status | INT32 | — | RO |
| 5044 | 13B4 | Slave Device 12: Status: Device Com. Status | INT32 | — | RO |
| 5045 | 13B5 | Slave Device 13: Status: Device Com. Status | INT32 | — | RO |
| 5046 | 13B6 | Slave Device 14: Status: Device Com. Status | INT32 | — | RO |
| 5047 | 13B7 | Slave Device 15: Status: Device Com. Status | INT32 | — | RO |
| 5048 | 13B8 | Slave Device 16: Status: Device Com. Status | INT32 | — | RO |
| 5049 | 13B9 | Slave Device 17: Status: Device Com. Status | INT32 | — | RO |
| 5050 | 13BA | Slave Device 18: Status: Device Com. Status | INT32 | — | RO |
| 5051 | 13BB | Slave Device 19: Status: Device Com. Status | INT32 | — | RO |
| 5052 | 13BC | Slave Device 20: Status: Device Com. Status | INT32 | — | RO |
| 5053 | 13BD | Slave Device Status: Slave Configured | INT32 | — | RO |
| 5054 | 13BE | Slave Device Status: Slave Connected | INT32 | — | RO |
| 5055 | 13BF | Slave Device Status: Slave Config Sync | INT32 | — | RO |
| 5056 | 13C0 | Slave Device Status: Slave Accept Sync | INT32 | — | RO |
| 5057 | 13C1 | Slave Device Status: Slaves Reporting User Alarms | INT32 | — | RO |
| 5058 | 13C2 | Slave Device Status: Configured Slaves Lost | INT32 | — | RO |
| 5059 | 13C3 | Slave Device Status: Slaves Reporting Errors | INT32 | — | RO |

Alarm Status Definitions

| Bit Position | Alarm Enabled When Bit=1 |
|--------------|--------------------------|
| 0 | Alarm 1 |
| 1 | Alarm 2 |
| 2 | Alarm 3 |
| 3 | Alarm 4 |
| 4 | Alarm 5 |
| 5 | Alarm 6 |
| 6 | Alarm 7 |
| 7 | Alarm 8 |
| 8 | Alarm 9 |
| 9 | Alarm 10 |
| 10 | Alarm 11 |
| 11 | Alarm 12 |
| 12 | Alarm 13 |
| 13 | Alarm 14 |
| 14 | Alarm 15 |
| 15 | Alarm 16 |
| 16 | Alarm 17 |
| 17 | Alarm 18 |
| 18 | Alarm 19 |
| 19 | Alarm 20 |
| 20 | Alarm 21 |
| 21 | Alarm 22 |
| 22 | Alarm 23 |
| 23 | Alarm 24 |
| 24 | Alarm 25 |
| 25 | Alarm 26 |
| 26 | Alarm 27 |
| 27 | Alarm 28 |
| 28 | Alarm 29 |
| 29 | Alarm 30 |
| 30 | Alarm 31 |
| 31 | Alarm 32 |

Input Status Definitions

| Bit Position | Status When Bit=1 |
|--------------|--------------------------------------|
| 0 | Input Disabled |
| 1 | High |
| 2 | High High |
| 3 | Low |
| 4 | Low Low |
| 5 | Fail |
| 6 | Overridden |
| 7 | Maintenance |
| 8 | Data Input Change |
| 9 | Input Invalid |
| 10 | Input is Integer |
| 11 | Input is Data Type Mismatch |
| 12 | Invalid K-Factor |
| 13 | Low Input Cutoff |
| 14 | High Range Overridden |
| 15 | Override Input Invalid |
| 16 | Override Input is Integer |
| 17 | Override Input is Data Type Mismatch |
| 18 | Override Input Category Mismatch |
| 19 | Low Cutoff Above High Range |

Generally, the QRATE Scanner 3X00 low, high, low-low, and high-high conditions for inputs are defined as shown in the following table.

| Status | Description |
|-----------|--|
| Low | Below transducer range by 0.5% of span |
| Low Low | Below transducer range by 20% of span |
| High | Above transducer range by any amount |
| High High | Above transducer range by 20% of span |

Alarm records are created when the device goes into and out of alarm condition. For example, an alarm is created when a damped input is greater than the upper end of the transducer range. The alarm will not clear until the damped value is less than 0.5% of span below the upper limit of the transducer range. A damped value is altered by field calibration but has not been altered by the low input cutoff value.

Fail status results when any of the following fail conditions exist.

| Input | Fail Condition |
|------------|--|
| RTD | Open circuit or short circuit is detected |
| 1 to 5 VDC | Input less than 125 mV |
| 4 to 20 mA | Input less than 0.5 mA |
| MVT | Serial number is not read at boot-up |
| | Temperature Sensor (TSEN): < -100°C or > 200°C |
| | Static Pressure: < -10 psi or > 10000 psi |
| | Differential Pressure: < -2000 In H2O or > 2000 In H2O |

Flow Run Status Definitions

| Bit Position | Flow Run Status When Bit=1 |
|--------------|--|
| 0 | Disabled |
| 1 | High |
| 2 | High High |
| 3 | Low |
| 4 | Low Low |
| 5 | Fail |
| 6 | Overridden |
| 7 | Maintenance |
| 8 | Data Input Change |
| 9 | Static Pressure Input Invalid |
| 10 | Static Pressure is Input Fail |
| 11 | Static Pressure is Category Mismatch |
| 12 | Process Temperature Input Invalid |
| 13 | Process Temperature is Input Fail |
| 14 | Process Temperature is Category Mismatch |
| 15 | Differential Pressure Input Invalid |
| 16 | Differential Pressure Input Fail |
| 17 | Differential Pressure is Category Mismatch |
| 18 | Square Root of Differential Pressure Input Invalid |
| 19 | Square Root of Differential Pressure is Input Fail |
| 20 | Square Root of Differential Pressure Category Mismatch |
| 21 | Uncorrected Accumulation Input Invalid |
| 22 | Uncorrected Accumulation Input Fail |
| 23 | Uncorrected Accumulation is Category Mismatch |
| 24 | Gas Fraction Input Input Fail |
| 25 | Oil Fraction Input Input Fail |
| 26 – 27 | — |
| 28 | Flow Calculation |
| 29 | Fluid Calculation |
| 30 | Flowing |
| 31 | Calculation Change |

Fluid Status Definitions

| Bit Position | Fluid Status When Bit=1 |
|--------------|------------------------------------|
| 0 | Fluid Change |
| 1 | No Temperature Change |
| 2 | No Pressure Change |
| 3 | Ideal Properties Incorrect |
| 4 | Molar Mass Incorrect |
| 5 | Ideal Absolute Viscosity Incorrect |
| 6 | Base Density Incorrect |

| Bit Position | Fluid Status When Bit=1 |
|--------------|--------------------------------------|
| 7 | Gas to Liquid Volume Ratio Incorrect |
| 8 | Liquid Oil Mass Fraction Incorrect |
| 9 | Normal Viscosity Incorrect |
| 10 | Flowing Density Incorrect |
| 11 | Flowing Viscosity Incorrect |
| 12 | — |
| 13 | Iisentropic Exponent Incorrect |
| 14 | Joule Thompson Coefficient Incorrect |
| 15 | Enthalphy Incorrect |
| 16 | Molar Heating Value Incorrect |
| 17 | Mass Heating Value Incorrect |
| 18 | Volume Heating Value Incorrect |
| 19 | Phase Is Liquid |
| 20 | Liquid Oil Density Incorrect |
| 21 | Liquid Water Density Incorrect |
| 22 | BS&W Value Incorrect |
| 23 | — |
| 24 | Temperature Range Error |
| 25 | Pressure Range Error |
| 26 | Thermal Expansion Range Error |
| 27 | Density Range Error |
| 28 – 29 | — |
| 30 | Non-Fatal Convergence Error |
| 31 | Configuration Error |

Flow Status Definitions

| Bit Position | Flow Status When Bit=1 |
|--------------|---|
| 0 | Square Root Differential Pressure Incorrect |
| 1 | Stability Warning |
| 2 | D Material Invalid |
| 3 | D Alpha Override Invalid |
| 4 | D Corrected Diameter Invalid |
| 5 | d Material Invalid |
| 6 | d Alpha Override Invalid |
| 7 | d Corrected Diameter Invalid |
| 8 | Reference Beta Ratio Invalid |
| 9 | Flowing Beta Ratio Invalid |
| 10 | Gas Expansion Factor Invalid |
| 11 | Meter Type Invalid |

| Bit Position | Flow Status When Bit=1 |
|--------------|---------------------------------------|
| 12 | D Reference Diameter Invalid |
| 13 | d Reference Diameter Invalid |
| 14 | $d > D$ |
| 15 | Incorrect Fluid Type |
| 16 | Reynold's Number Low Warning |
| 17 | Reynold's Number High Warning |
| 18 | Beta Low Warning |
| 19 | Beta High Warning |
| 20 | Multiphase Root Search Failure |
| 21 | Multiphase Non-fatal Convergence Fail |

Gas Stream Holding Status Definitions

| Bit Position | Gas Stream Holding Status When Bit=1 |
|--------------|---|
| 0 | Overridden (flow run uses static composition) |
| 1 | Gas Chromatograph Alarm |
| 2 | Static Due to Fail |
| 3 – 4 | — |
| 5 | Molecule Entry 1 Range Fail |
| 6 | Molecule Entry 2 Range Fail |
| 7 | Molecule Entry 3 Range Fail |
| 8 | Molecule Entry 4 Range Fail |
| 9 | Molecule Entry 5 Range Fail |
| 10 | Molecule Entry 6 Range Fail |
| 11 | Molecule Entry 7 Range Fail |
| 12 | Molecule Entry 8 Range Fail |
| 13 | Molecule Entry 9 Range Fail |
| 14 | Molecule Entry 10 Range Fail |
| 15 | Molecule Entry 11 Range Fail |
| 16 | Molecule Entry 12 Range Fail |
| 17 | Molecule Entry 13 Range Fail |
| 18 | Molecule Entry 14 Range Fail |
| 19 | Molecule Entry 15 Range Fail |
| 20 | Molecule Entry 16 Range Fail |
| 21 | Fractional Sum Test 1 Fail |
| 22 | Fractional Sum Test 2 Fail |
| 23 | Fractional Sum Test 3 Fail |
| 24 | Fractional Sum Test 4 Fail |
| 25 | Input Stale Fail |
| 26 – 29 | — |
| 30 | Input Failed Tests |
| 31 | Gas Stream Alarm |

PID Holding Status Definitions

| Bit Position | Status When Bit=1 |
|--------------|--|
| 0 | Disabled |
| 1 | Process Value Invalid |
| 2 | Process Value is Integer |
| 3 | Process Value Data Type Mismatch |
| 4 | Static Pressure Invalid |
| 5 | Static Pressure is Integer |
| 6 | Static Pressure Data Type Mismatch |
| 7 | Track Invalid |
| 8 | Track is Integer |
| 9 | Track Data Type Mismatch |
| 10 | Test Value Invalid |
| 11 | Test Value is Integer |
| 12 | Test Data Type Mismatch |
| 13 | Signal Select Active |
| 14 | Manual Override |
| 15 | Calculation Error |
| 16 | Automatic Period Tracking |
| 17 | Process Value Tag Category Change Error |
| 18 | Process Value Fail |
| 19 | Process Value Disabled |
| 20 | Process Value Tolerance |
| 21 | Process Value Deadband |
| 22 | Setpoint Value Tag Category Change Error |
| 23 | Setpoint Value Fail |
| 24 | Setpoint Value Disabled |
| 25 – 28 | — |
| 29 | Tolerance Lock |
| 30 | Maintenance |
| 31 | Fail |

Slave Device Comm Status Definitions

| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
|-----|---|---|---|---|---|---|---|-----|
| ACT | — | | | | | | | OPR |

| Value | ACT: ARCHIVE ACTIVE |
|-------|--|
| 0 | Slave Device Archive Parameters Not Received |
| 1 | Slave Device Archive Parameters Received |
| Value | OPR: SLAVE OPERATIONAL |
| 0 | Slave Not Responding |
| 1 | Slave Responding |

Slave Device Status Definitions (Registers 5053 through 5059)

| Bit Position | Alarm Enabled When Bit=1 | Bit Position | Alarm Enabled When Bit=1 |
|--------------|--------------------------|--------------|--------------------------|
| 0 | Slave Device 1 | 10 | Slave Device 11 |
| 1 | Slave Device 2 | 11 | Slave Device 12 |
| 2 | Slave Device 3 | 12 | Slave Device 13 |
| 3 | Slave Device 4 | 13 | Slave Device 14 |
| 4 | Slave Device 5 | 14 | Slave Device 15 |
| 5 | Slave Device 6 | 15 | Slave Device 16 |
| 6 | Slave Device 7 | 16 | Slave Device 17 |
| 7 | Slave Device 8 | 17 | Slave Device 18 |
| 8 | Slave Device 9 | 18 | Slave Device 19 |
| 9 | Slave Device 10 | 19 | Slave Device 20 |

Input/Output Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-------|--------|
| 5201 | 1451 | Digital Input: Instantaneous Digital Inputs | INT32 | — | RO |
| 5202 | 1452 | Digital Input: Daily Digital Inputs | INT32 | — | RO |
| 5203 | 1453 | Digital Input: Interval Digital Inputs | INT32 | — | RO |
| 5204 | 1454 | Digital Input: Triggered Value | INT32 | — | RO |
| 5205 | 1455 | Digital Input: Previous Daily Digital Inputs | INT32 | — | RO |
| 5206 | 1456 | Digital Input: Previous Interval Digital Inputs | INT32 | — | RO |
| 5207 | 1457 | Digital Input: Previous Triggered Value | INT32 | — | RO |
| 5208 | 1458 | Digital Input: Digital Input 1 | INT32 | — | RO |
| 5209 | 1459 | Digital Input: Digital Input 2 | INT32 | — | RO |
| 5210 | 145A | Digital Input: Digital Input 3 | INT32 | — | RO |
| 5211 | 145B | Digital Input: Digital Input 4 | INT32 | — | RO |
| 5212 | 145C | Digital Input: Digital Input 5 | INT32 | — | RO |
| 5213 | 145D | Digital Input: Digital Input 6 | INT32 | — | RO |
| 5214 | 145E | Digital Output 1: Holding: Output | INT32 | — | RW |
| 5215 | 145F | Digital Output 1: Holding: Pulses | INT32 | — | RW |
| 5216 | 145E | Digital Output 2: Holding: Output | INT32 | — | RW |
| 5217 | 145F | Digital Output 2: Holding: Pulses | INT32 | — | RW |
| 5218 | 145E | Digital Output 3: Holding: Output | INT32 | — | RW |
| 5219 | 145F | Digital Output 3: Holding: Pulses | INT32 | — | RW |
| 5220 | 1460 | Digital Output 4: Holding: Output | INT32 | — | RW |
| 5221 | 1461 | Digital Output 4: Holding: Pulses | INT32 | — | RW |
| 5222 | 1462 | Digital Output 5: Holding: Output | INT32 | — | RW |
| 5223 | 1463 | Digital Output 5: Holding: Pulses | INT32 | — | RW |
| 5224 | 1464 | Digital Output 6: Holding: Output | INT32 | — | RW |
| 5225 | 1463 | Digital Output 6: Holding: Pulses | INT32 | — | RW |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-------|--------|
| 5226 | 146A | Analog Output 1 PID: Holding: Override Enable | INT32 | — | RO |
| 5227 | 146B | Analog Output 2 PID: Holding: Override Enable | INT32 | — | RO |

Digital Output Status

Digital Output: Holding: Output

Digital Output: Holding: Output registers report the state of the corresponding digital output when Digital Input/Output mode is configured as one of the following settings:

- **Alarm.** Selected device alarms.
- **Conditional.** Value above setpoint, value below setpoint, or value out of setpoint range.
- **Programmed.** Time of day output control or controlled output state (via serial port).

Read the corresponding register to determine its output state.

| Value | Output Status |
|-------|---------------|
| 0 | Disabled |
| 1 | Enabled |

Digital Output: Holding: Pulses

Digital Output: Holding: Pulses registers can be used to set the Digital Output state when the Digital Input/Output mode is configured as “Programmed–Controlled Output State (via serial port).”

| Value | Output Status |
|-------------------|---------------|
| 0 | Disabled |
| Any other integer | Enabled |

Write a value to the desired Digital Output: Holding: Pulses register to set the output state. Read the corresponding Holding: Output register to validate the digital output status.

Flow Run 1 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-------|--------|
| 5301 | 14B5 | Flow Run 1: Configure: Calculation Period | INT32 | — | RW |
| 5302 | 14B6 | Flow Run 1: Configure: Fluid Calculation Interval | INT32 | — | RW |
| 5303 | 14B7 | Flow Run 1: Configure: Dampening Mode | INT32 | — | RW |
| 5304 | 14B8 | Flow Run 1: HAccum: Flow Direction | INT32 | — | RO |
| 5305 | 14B9 | Flow Run 1: HFluid: Method | INT32 | — | RO |
| 5306 | 14BA | Flow Run 1: HFluid: Override | INT32 | — | RO |
| 5307 | 14BB | Flow Run 1: HFlow: Method | INT32 | — | RO |
| 5308 | 14BC | Flow Run 1: HFlow: Override | INT32 | — | RO |
| 5309 | 14BD | Flow Run 1: HFlow: Installation Parameters | INT32 | — | RO |
| 5310 | 14BE | Flow Run 1: HFlow: Meter Tube Material | INT32 | — | RO |
| 5311 | 14BF | Flow Run 1: HFlow: Orifice Material | INT32 | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------|-----------|-------|--------|
| 5312 | 14C0 | Flow Run 1: HFlow: Tap Type | INT32 | — | RO |
| 5313 | 14C1 | Flow Run 1: HFlow: Tap Location | INT32 | — | RO |

Flow Run 2 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 5401 | 1519 | Flow Run 2: Config: Calculation Period | INT32 | — | RW |
| 5402 | 151A | Flow Run 2: Config: Fluid Calculation Interval | INT32 | — | RW |
| 5403 | 151B | Flow Run 2: Config: Dampening Mode | INT32 | — | RW |
| 5404 | 151C | Flow Run 2: HAccum: Flow Direction | INT32 | — | RO |
| 5405 | 151D | Flow Run 2: HFluid: Method | INT32 | — | RO |
| 5406 | 151E | Flow Run 2: HFluid: Override | INT32 | — | RO |
| 5407 | 151F | Flow Run 2: HFlow: Method | INT32 | — | RO |
| 5408 | 1520 | Flow Run 2: HFlow: Override | INT32 | — | RO |
| 5409 | 1521 | Flow Run 2: HFlow: Installation Parameters | INT32 | — | RO |
| 5410 | 1522 | Flow Run 2: HFlow: Meter Tube Material | INT32 | — | RO |
| 5411 | 1523 | Flow Run 2: HFlow: Orifice Material | INT32 | — | RO |
| 5412 | 1524 | Flow Run 2: HFlow: Tap Type | INT32 | — | RO |
| 5413 | 1525 | Flow Run 2: HFlow: Tap Location | INT32 | — | RO |

Flow Direction

| Bit Position | Description |
|--------------|--|
| 0 | Accumulating flow from positive differential pressure or positive uncorrected accumulation |
| 1 | Accumulating flow from negative differential pressure or negative uncorrected accumulation |

Fluid Information Methods

| 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| LV2 | LV1 | LV0 | DS1 | DS0 | AL2 | AL1 | AL0 | — | SR2 | SR1 | SR0 | SPC | — | TAS | TST |
| 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
| — | HC2 | HC1 | HC0 | ITE | — | — | — | F02 | F01 | F00 | E04 | E03 | E02 | E01 | E00 |

| Value | F02-F00: Fluid Type |
|-------|----------------------------|
| 0 | Gas Mixture |
| 1 | Gas Gross |
| 2 | Fluid Pure Substance |
| 3 | Liquid Hydrocarbon Mixture |
| 4 | Liquid Gross |
| 5 | Liquid Composite |

| Value | | E04-E00: Equation of State |
|---|---|-----------------------------------|
| Fluid Type: Gas Mixture | | |
| 0 – 1 | — | |
| 2 | AGA 8, Gas, Detailed (1994) | |
| 3 | Gerg 08, Gas | |
| 4 – 8 | — | |
| Fluid Type: Gas Gross | | |
| 0 | GCN | |
| 1 – 9 | — | |
| Fluid Type: Liquid Hydrocarbon Mixture | | |
| 0 | — | |
| 1 | Gerg 08, Liquid | |
| Fluid Type: Liquid Gross | | |
| 0 | API MPMS, Chapter 11 | |
| 1 | API MPMS, Chapter 11 - Basic Densitometer | |
| 2 | API MPMS, Chapter 11 - Net Oil Computer | |
| 3 | API MPMS, Chapter 11 - Crude Densitometer | |
| 4 – 5 | — | |
| Value | | TST: GPA Test Tables |
| 0 | — | |
| 1 | GPA:1992 | |
| Value | | TAS: GPA Tables Source |
| 0 | Internal GPA table used | |
| 1 | — | |

| Value | | SPC: Secondary Phase Conditions |
|--------------|--|--|
| 0 | Configured Secondary Phase Densities at Base Conditions | |
| 1 | Configured Secondary Phase Densities at Flowing Conditions | |
| Value | | SR2-SR0: SGERG Reference Conditions |
| 0 | US, AGA (American Gas Association) | |
| 1 | GPA (Gas Processors Association) | |
| 2 | Canada, Nova/TCPL | |
| 3 | France, Japan | |
| 4 | UK, Australia, Ireland | |
| 5 | Russia | |
| 6 | Brazil | |
| 7 | Belgium, Austria, Denmark, Germany, Netherlands, Italy | |
| Value | | AL3-AL0: API Liquid Indication |
| 0 | Crude Oil | |
| 1 | Generalized Refined Products | |
| 2 | Lubricating Oil | |
| 3 | Special Products (API MPMS Ch. 11.1-2004, Table 6C) | |
| 4 | — | |

| Value | | DS1-DS0: Liquid Density Source |
|--------------|--|--|
| 0 | Absolute Density | |
| 1 | Specific Gravity | |
| 2 | API Gravity | |
| Value | | LV2-LV0: Liquid Volume Correction Method |
| 0 | None | |
| 1 | BS&W Base Conditions | |
| 2 | BS&W Live Flowing Conditions | |
| 3 | BS&W Calculated Flowing Conditions | |
| 4 | BS&W User Flowing Conditions | |
| 5 | BS&W Live Base Conditions | |
| Value | | HC2-HC0: Heating Calculation Method |
| 0 | Old AGA Report No. 5, per AGA 3:3 (1992) Appendix F, Scanner 2000 Method | |
| 1 | GPA-2172, per AGA 8 (1994) Appendix C.4 | |
| 2 | AGA Report No. 5 (2009) | |
| Value | | ITE: Isentropic Exponent Calculation Method |
| 0 | Ideal Gas Isentropic Exponent (Polling & Prausnitz) | |
| 1 | Equation of State Specific Calculation of Isentropic Exponent | |

Fluid Information Override Definitions

| Bit Position | Description |
|---------------------|---------------------------------------|
| 0 | Flowing Mass Density |
| 1 | Flowing Viscosity |
| 2 | Mass Combustion Heating Value |
| 3 | Gross Volume Combustion Heating Value |
| 4 | Isentropic Exponent |
| 5 | Combustion Reference Temperature |
| 6 | Generic Gas |
| 7 | Liquid API Alpha |
| 8 | Gas Fraction Live Input |
| 9 | Oil Fraction Live Input |
| 10 | BS&W Live Input |
| 11 – 15 | — |

IF97 Region Override

| Region | Description | Hexadecimal Value |
|---------------|------------------------------------|--------------------------|
| — | None | 0x00000000 |
| 1 | Water | 0x00010000 |
| 2 | Dry Steam | 0x00020000 |
| 3 | Critical Range | 0x00030000 |
| 4 | Saturation Line | 0x00040000 |
| 5 | High-temperature Superheated Steam | 0x00050000 |

Flow Information Methods

| | | | | | | | | | | | | | | | |
|----|----|----|----|----|-----|-----|-----|----|----|----|-----|-----|-----|-----|-----|
| 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 |
| — | | | | | | | | | | | | MC3 | MC2 | MC1 | MC0 |
| 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
| — | | | | | PT2 | PT1 | PT0 | — | | | FM4 | FM3 | FM2 | FM1 | FM0 |

| Value | FM4-FM0: Flow Rate Method for Differential Producer Type |
|---------|--|
| 0 | Classical Venturi |
| 1 | Cone, Spoolpiece |
| 2 | Cone, Wafer |
| 3 – 5 | — |
| 6 | Orifice NEL/TC28 (ISO-5167: Orifice) |
| 7 | — |
| 8 | Orifice (AGA 3:1992) |
| 9 | Orifice (AGA 3:2012) |
| 10 – 15 | — |
| 16 | ASME Small-bore Orifice |
| 17 – 20 | — |
| Value | FM4-FM0: Flow Rate Method for Accumulation Producer Type |
| 0 | Volume Pulse Accumulation, AGA-7 (2006) |
| 1 | Mass Pulse Accumulation |
| Value | PT2-PT0: Producer Type |
| 0 | Differential |
| 1 | Accumulation |
| 2 | — |
| Value | MC3-MC0: Multiphase Correction Algorithm |
| 0 | No correction |
| 1 | User-entered Correction Factor |
| 2 | Chisholm-Steven Orifice Meter |
| 3 | Chisholm-Steven Cone Meter |

Flow Information Override Definitions

| Bit Position | Description |
|--------------|------------------------------|
| 0 | D Alpha |
| 1 | d Alpha |
| 2 | Beta Ratio |
| 3 | Discharge Coefficient |
| 4 | Meter Factor |
| 5 | Annubar Coefficients |
| 6 | Multiphase Correction Factor |

Flow Installation Parameters

| | | | | | | | | | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|
| 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 |
| | — | | MT4 | MT3 | MT2 | MT1 | MT0 | TOR | TLO | TT1 | TT0 | EXT | — | | AUS |

| | | | | | | | | | | | | | | | |
|----|----|----|-----|-----|-----|-----|-----|---|---|---|---|-----|-----|-----|-----|
| 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
| | — | | WPH | dM3 | dM2 | dM1 | dM0 | | — | | | DM3 | DM2 | DM1 | DM0 |

| dM3-dM0: Plate (d) Metal Type DM3-DM0: Pipe (D) Metal Type | |
|---|---|
| Value | |
| 0 | Zero Thermal Expansion |
| 1 | Generic Carbon Steel |
| 2 | Generic 300-Series Stainless Steel |
| 3 | 304, 304H Stainless Steel (ASTM A312-304) |
| 4 | 316, 316H Stainless Steel (ASTM A312-316) |
| 5 | Monel and Related Nickel Alloys |
| 6 | Monel 400 |
| 7 | Yellow Brass (ASTM B36, B134, B135) |
| 8 | Inconel-X, Annealed |
| 9 | Pure Nickel |
| 10 | Hastelloy C-22 |
| 11 | Titanium, 20 °C to 100 °C |
| Value AUS: Expansion Coefficient Source | |
| 0 | Coefficients are based on SI Tables |
| 1 | Coefficients are based on US Customary Tables |
| Value WPH: Weep Hole Installed | |
| 0 | No weep hole |
| 1 | Weep hole installed |
| Value TT1-TT0: Tap Type | |
| 0 | Corner |
| 1 | Flange |
| 2 | D and D2 |
| Value TLO: Static Tap Location | |
| 0 | Upstream |
| 1 | Downstream |
| Value TOR: Tap Orientation | |
| 0 | deg90 (Eccentric Orifice Only) |
| 1 | deg180 |
| Value EXT: Extended Temperature Range | |
| 0 | Fixed Alpha |
| 1 | Alpha corrected to higher temperatures |
| Value MT4-MT0: Meter Type Information | |
| <i>Meter Type: Classical Herschell Venturi</i> | |
| 0 | Vcalibrated |
| 1 – 3 | — |

Input/Output Configuration (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-------|--------|
| 5601 | 15E0 | Differential Pressure: Configure: Override Enable | INT32 | — | RW |
| 5602 | 15E1 | Static Pressure: Configure: Override Enable | INT32 | — | RW |
| 5603 | 15E2 | RTD1: Configure: Override Enable | INT32 | — | RW |
| 5604 | 15E3 | RTD2: Configure: Override Enable | INT32 | — | RW |
| 5605 | 15E4 | Analog 1: Configure: Override Enable | INT32 | — | RW |
| 5606 | 15E5 | Analog 2: Configure: Override Enable | INT32 | — | RW |
| 5607 | 15E6 | Analog 3: Configure: Override Enable | INT32 | — | RW |
| 5608 | 15E7 | Analog 4: Configure: Override Enable | INT32 | — | RW |
| 5609 | 15E8 | Pulse Input 1: Configure: Override Enable | INT32 | — | RW |
| 5610 | 15EA | Pulse Input 2: Configure: Override Enable | INT32 | — | RW |
| 5611 | 15EB | Pulse Input 3: Configure: Override Enable | INT32 | — | RW |
| 5612 | 15EC | Analog Output 1 PID: Configure: Override Enable | INT32 | — | RW |
| 5613 | 15ED | Analog Output 2 PID: Configure: Override Enable | INT32 | — | RW |

Flow Run 1 Configuration (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 5701 | 1645 | Flow Run 1: Config: Flow Direction | INT32 | — | RW |
| 5702 | 1646 | Flow Run 1: CFlow: Meter Tube Material | INT32 | — | RW |
| 5703 | 1647 | Flow Run 1: CFlow: Orifice Material | INT32 | — | RW |
| 5704 | 1648 | Flow Run 1: CFlow: Tap Type | INT32 | — | RW |
| 5705 | 1649 | Flow Run 1: CFlow: Tap Location | INT32 | — | RW |

Flow Run 2 Configuration (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 5801 | 16A9 | Flow Run 2: Config: Flow Direction | INT32 | — | RW |
| 5802 | 16AA | Flow Run 2: CFlow: Meter Tube Material | INT32 | — | RW |
| 5803 | 16AB | Flow Run 2: CFlow: Orifice Material | INT32 | — | RW |
| 5804 | 16AC | Flow Run 2: CFlow: Tap Type | INT32 | — | RW |
| 5805 | 16AD | Flow Run 2: CFlow: Tap Location | INT32 | — | RW |

To decode meter tube material, orifice material, tap type, and tap location, refer to [Flow Run 1 Holding \(Integers\)](#) and [Flow Run 2 Holding \(Integers\)](#), page 45.

To decode flow direction, refer to [Flow Direction](#), page 45.

Slave 1 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------------|-----------|-------|--------|
| 6601 | 19C9 | Slave Device 1: Holding: Alarms | INT32 | — | RO |
| 6602 | 19CA | Slave Device 1: Holding: Input Status | INT32 | — | RO |
| 6603 | 19CB | Slave Device 1: Holding: Calc Status | INT32 | — | RO |

Slave 2 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------------|-----------|-------|--------|
| 6611 | 19D3 | Slave Device 2: Holding: Alarms | INT32 | — | RO |
| 6612 | 19D4 | Slave Device 2: Holding: Input Status | INT32 | — | RO |
| 6613 | 19D5 | Slave Device 2: Holding: Calc Status | INT32 | — | RO |

Slave 3 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------------|-----------|-------|--------|
| 6621 | 19DD | Slave Device 3: Holding: Alarms | INT32 | — | RO |
| 6622 | 19DE | Slave Device 3: Holding: Input Status | INT32 | — | RO |
| 6623 | 19DF | Slave Device 3: Holding: Calc Status | INT32 | — | RO |

Slave 4 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------------|-----------|-------|--------|
| 6631 | 19E0 | Slave Device 4: Holding: Alarms | INT32 | — | RO |
| 6632 | 19E1 | Slave Device 4: Holding: Input Status | INT32 | — | RO |
| 6633 | 19E2 | Slave Device 4: Holding: Calc Status | INT32 | — | RO |

Slave 5 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------------|-----------|-------|--------|
| 6641 | 19F1 | Slave Device 5: Holding: Alarms | INT32 | — | RO |
| 6642 | 19F2 | Slave Device 5: Holding: Input Status | INT32 | — | RO |
| 6643 | 19F3 | Slave Device 5: Holding: Calc Status | INT32 | — | RO |

Slave 6 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------------|-----------|-------|--------|
| 6651 | 19FB | Slave Device 6: Holding: Alarms | INT32 | — | RO |
| 6652 | 19FC | Slave Device 6: Holding: Input Status | INT32 | — | RO |
| 6653 | 19FD | Slave Device 6: Holding: Calc Status | INT32 | — | RO |

Slave 7 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------------|-----------|-------|--------|
| 6661 | 1A05 | Slave Device 7: Holding: Alarms | INT32 | — | RO |
| 6662 | 1A06 | Slave Device 7: Holding: Input Status | INT32 | — | RO |
| 6663 | 1A07 | Slave Device 7: Holding: Calc Status | INT32 | — | RO |

Slave 8 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------------|-----------|-------|--------|
| 6671 | 1A0F | Slave Device 8: Holding: Alarms | INT32 | — | RO |
| 6672 | 1A10 | Slave Device 8: Holding: Input Status | INT32 | — | RO |
| 6673 | 1A11 | Slave Device 8: Holding: Calc Status | INT32 | — | RO |

Slave 9 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------------|-----------|-------|--------|
| 6681 | 1A19 | Slave Device 9: Holding: Alarms | INT32 | — | RO |
| 6682 | 1A1A | Slave Device 9: Holding: Input Status | INT32 | — | RO |
| 6683 | 1A1B | Slave Device 9: Holding: Calc Status | INT32 | — | RO |

Slave 10 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 6691 | 1A23 | Slave Device 10: Holding: Alarms | INT32 | — | RO |
| 6692 | 1A24 | Slave Device 10: Holding: Input Status | INT32 | — | RO |
| 6693 | 1A25 | Slave Device 10: Holding: Calc Status | INT32 | — | RO |

Slave 11 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 6701 | 1A2D | Slave Device 11: Holding: Alarms | INT32 | — | RO |
| 6702 | 1A2E | Slave Device 11: Holding: Input Status | INT32 | — | RO |
| 6703 | 1A2F | Slave Device 11: Holding: Calc Status | INT32 | — | RO |

Slave 12 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 6711 | 1A37 | Slave Device 12: Holding: Alarms | INT32 | — | RO |
| 6712 | 1A38 | Slave Device 12: Holding: Input Status | INT32 | — | RO |
| 6713 | 1A39 | Slave Device 12: Holding: Calc Status | INT32 | — | RO |

Slave 13 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 6721 | 1A41 | Slave Device 13: Holding: Alarms | INT32 | — | RO |
| 6722 | 1A42 | Slave Device 13: Holding: Input Status | INT32 | — | RO |
| 6723 | 1A43 | Slave Device 13: Holding: Calc Status | INT32 | — | RO |

Slave 14 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 6731 | 1A4B | Slave Device 14: Holding: Alarms | INT32 | — | RO |
| 6732 | 1A4C | Slave Device 14: Holding: Input Status | INT32 | — | RO |
| 6733 | 1A4D | Slave Device 14: Holding: Calc Status | INT32 | — | RO |

Slave 15 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 6741 | 1A55 | Slave Device 15: Holding: Alarms | INT32 | — | RO |
| 6742 | 1A56 | Slave Device 15: Holding: Input Status | INT32 | — | RO |
| 6743 | 1A57 | Slave Device 15: Holding: Calc Status | INT32 | — | RO |

Slave 16 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 6751 | 1A5F | Slave Device 16: Holding: Alarms | INT32 | — | RO |
| 6752 | 1A60 | Slave Device 16: Holding: Input Status | INT32 | — | RO |
| 6753 | 1A61 | Slave Device 16: Holding: Calc Status | INT32 | — | RO |

Slave 17 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 6761 | 1A69 | Slave Device 17: Holding: Alarms | INT32 | — | RO |
| 6762 | 1A6A | Slave Device 17: Holding: Input Status | INT32 | — | RO |
| 6763 | 1A6B | Slave Device 17: Holding: Calc Status | INT32 | — | RO |

Slave 18 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 6771 | 1A73 | Slave Device 18: Holding: Alarms | INT32 | — | RO |
| 6772 | 1A74 | Slave Device 18: Holding: Input Status | INT32 | — | RO |
| 6773 | 1A75 | Slave Device 18: Holding: Calc Status | INT32 | — | RO |

Slave 19 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 6781 | 1A7D | Slave Device 19: Holding: Alarms | INT32 | — | RO |
| 6782 | 1A7E | Slave Device 19: Holding: Input Status | INT32 | — | RO |
| 6783 | 1A7F | Slave Device 19: Holding: Calc Status | INT32 | — | RO |

Slave 20 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 6791 | 1A87 | Slave Device 20: Holding: Alarms | INT32 | — | RO |
| 6792 | 1A88 | Slave Device 20: Holding: Input Status | INT32 | — | RO |
| 6793 | 1A89 | Slave Device 20: Holding: Calc Status | INT32 | — | RO |

Slave Device Status

The slave device status includes alarm status and diagnostic information such as input status and calculation status. The Scanner 2x00 slave devices have 16 user-configurable alarms designated as Flow Run Alarms. Alarms are defined as low alarms or high alarms. To decode alarms, refer to “Flow Run Alarm Status” column of the [Bit Definitions—Alarms and Diagnostics](#) below.

Current status of the alarms can be obtained by reading the Flow Run Alarm registers in the device status map. A bit value of 1 indicates an alarm condition. Also contained in the device status map are diagnostic registers. The bits in these registers provide system status for inputs (under range, above range or failed), calculation status (for confirming whether the flow run is working properly) and details regarding the health of the MVT.

Bit Definitions—Alarms and Diagnostics

| Bit | Flow Run Alarm Status | Diagnostic 1 (Bits 16-31) Diagnostic 2 (Bits 0-15) | Diagnostic 3 (Bits 16-31) Diagnostic 4 (Bits 0-15) |
|-----|-----------------------|---|---|
| 31 | FRA16 High | FR1 Fail | — |
| 30 | FRA15 High | T1 Fail | — |
| 29 | FRA14 High | T2 Fail | T2 Calc Warning |
| 28 | FRA13 High | Static Pressure Fail | T1 Calc Warning |
| 27 | FRA12 High | Differential Pressure Fail | — |
| 26 | FRA11 High | PT Fail | — |
| 25 | FRA10 High | Analog Input 1 Fail | — |
| 24 | FRA9 High | Analog Input 2 Fail | FR1 Calc Warning |
| 23 | FRA8 High | FR1 Override | NA |
| 22 | FRA7 High | T1 Override | NA |
| 21 | FRA6 High | T2 Override | MVT M3 Formula Fail |
| 20 | FRA5 High | Static Pressure Override | MVT M2 Formula Fail |
| 19 | FRA4 High | Differential Pressure Override | MVT M1 Formula Fail |
| 18 | FRA3 High | PT Override | MVT User Parameter CRC fail |
| 17 | FRA2 High | Analog Input 1 Override | MVT Factory Parameter CRC fail |
| 16 | FRA1 High | Analog Input 2 Override | MVT Not Present |

| Bit | Flow Run Alarm Status | Diagnostic 1 (Bits 16-31) Diagnostic 2 (Bits 0-15) | Diagnostic 3 (Bits 16-31) Diagnostic 4 (Bits 0-15) |
|-----|-----------------------|---|---|
| 15 | FRA16 Low | FR1 High | — |
| 14 | FRA15 Low | T1 High | — |
| 13 | FRA14 Low | T2 High | — |
| 12 | FRA13 Low | Static Pressure High | — |
| 11 | FRA12 Low | Differential Pressure High | — |
| 10 | FRA11 Low | PT High | — |
| 9 | FRA10 Low | Analog Input 1 High | — |
| 8 | FRA9 Low | Analog Input 2 High | — |
| 7 | FRA8 Low | FR1 Low | — |
| 6 | FRA7 Low | T1 Low | — |
| 5 | FRA6 Low | Static Pressure Low | — |
| 4 | FRA5 Low | — | Power Mode |
| 3 | FRA4 Low | Differential Pressure Low | — |
| 2 | FRA3 Low | PT Low | — |
| 1 | FR2 Low | Analog Input 1 Low | Device Seal |
| 0 | FRA1 Low | Analog Input 2 Low | External Switch |

The Scanner 2x00 produces low, high and fail conditions for the inputs (not the flow alarms) in accordance with the following table.

| Status | Range Check |
|-----------|----------------------------------|
| Low | Lower Range Limit - 20% of span |
| Fail Low | Lower Range Limit - 500% of span |
| High | Upper Range Limit + 20% of span |
| Fail High | Upper Range Limit + 500% of span |

Archive Status

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 7001 | 1B59 | Enron: Event and Alarm Counter | FP | — | RO |
| 7002 | 1B5A | FA1: Counters: Record Index Daily Enron Counter | FP | — | RO |
| 7003 | 1B5B | FA1: Counters: Record Index Interval Enron Counter | FP | — | RO |
| 7004 | 1B5C | FA2: Counters: Record Index Daily Enron Counter | FP | — | RO |
| 7005 | 1B5D | FA2: Counters: Record Index Interval Enron Counter | FP | — | RO |
| 7006 | 1B5E | TA1: Counters: Record Index Enron Counter | FP | — | RO |
| 7007 | 1B5F | SA1: Counters: Record Index Daily Enron Counter | FP | — | RO |
| 7008 | 1B60 | SA1: Counters: Record Index Interval Enron Counter | FP | — | RO |
| 7009 | 1B61 | SA2: Counters: Record Index Daily Enron Counter | FP | — | RO |
| 7010 | 1B62 | SA2: Counters: Record Index Interval Enron Counter | FP | — | RO |
| 7011 | 1B63 | SA3: Counters: Record Index Daily Enron Counter | FP | — | RO |
| 7012 | 1B64 | SA3: Counters: Record Index Interval Enron Counter | FP | — | RO |
| 7013 | 1B65 | SA4: Counters: Record Index Daily Enron Counter | FP | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|--------|--------|
| 7014 | 1B66 | SA4: Counters: Record Index Interval Enron Counter | FP | — | RO |
| 7015 | 1B67 | SA5: Counters: Record Index Daily Enron Counter | FP | — | RO |
| 7016 | 1B68 | SA5: Counters: Record Index Interval Enron Counter | FP | — | RO |
| 7017 | 1B69 | SA6: Counters: Record Index Daily Enron Counter | FP | — | RO |
| 7018 | 1B6A | SA6: Counters: Record Index Interval Enron Counter | FP | — | RO |
| 7019 | 1B6B | SA7: Counters: Record Index Daily Enron Counter | FP | — | RO |
| 7020 | 1B6C | SA7: Counters: Record Index Interval Enron Counter | FP | — | RO |
| 7021 | 1B6D | SA8: Counters: Record Index Daily Enron Counter | FP | — | RO |
| 7022 | 1B6E | SA8: Counters: Record Index Interval Enron Counter | FP | — | RO |
| 7023 | 1B6F | SA9: Counters: Record Index Daily Enron Counter | FP | — | RO |
| 7024 | 1B70 | SA9: Counters: Record Index Interval Enron Counter | FP | — | RO |
| 7025 | 1B71 | SA10: Counters: Record Index Daily Enron Counter | FP | — | RO |
| 7026 | 1B72 | SA10: Counters: Record Index Interval Enron Counter | FP | — | RO |
| 7027 | 1B73 | SA11: Counters: Record Index Daily Enron Counter | FP | — | RO |
| 7028 | 1B74 | SA11: Counters: Record Index Interval Enron Counter | FP | — | RO |
| 7029 | 1B75 | SA12: Counters: Record Index Daily Enron Counter | FP | — | RO |
| 7030 | 1B76 | SA12: Counters: Record Index Interval Enron Counter | FP | — | RO |
| 7031 | 1B77 | SA13: Counters: Record Index Daily Enron Counter | FP | — | RO |
| 7032 | 1B78 | SA13: Counters: Record Index Interval Enron Counter | FP | — | RO |
| 7033 | 1B79 | SA14: Counters: Record Index Daily Enron Counter | FP | — | RO |
| 7034 | 1B7A | SA14: Counters: Record Index Interval Enron Counter | FP | — | RO |
| 7035 | 1B7B | SA15: Counters: Record Index Daily Enron Counter | FP | — | RO |
| 7036 | 1B7C | SA15: Counters: Record Index Interval Enron Counter | FP | — | RO |
| 7037 | 1B7D | SA16: Counters: Record Index Daily Enron Counter | FP | — | RO |
| 7038 | 1B7E | SA16: Counters: Record Index Interval Enron Counter | FP | — | RO |
| 7039 | 1B7F | SA17: Counters: Record Index Daily Enron Counter | FP | — | RO |
| 7040 | 1B80 | SA17: Counters: Record Index Interval Enron Counter | FP | — | RO |
| 7041 | 1B81 | SA18: Counters: Record Index Daily Enron Counter | FP | — | RO |
| 7042 | 1B82 | SA18: Counters: Record Index Interval Enron Counter | FP | — | RO |
| 7043 | 1B83 | SA19: Counters: Record Index Daily Enron Counter | FP | — | RO |
| 7044 | 1B84 | SA19: Counters: Record Index Interval Enron Counter | FP | — | RO |
| 7045 | 1B85 | SA20: Counters: Record Index Daily Enron Counter | FP | — | RO |
| 7046 | 1B86 | SA20: Counters: Record Index Interval Enron Counter | FP | — | RO |
| 7047 | 1B87 | EA1: Status: Record Index User Change Newest Date | FP | MMDDYY | RO |
| 7048 | 1B88 | EA1: Status: Record Index User Change Newest Time | FP | HHMMSS | RO |
| 7049 | 1B89 | FA1: Status: Record Index Daily Newest Date | FP | MMDDYY | RO |
| 7050 | 1B8A | FA1: Status: Record Index Daily Newest Time | FP | HHMMSS | RO |
| 7051 | 1B8B | FA1: Status: Record Index Interval Newest Date | FP | MMDDYY | RO |
| 7052 | 1B8C | FA1: Status: Record Index Interval Newest Time | FP | HHMMSS | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|--------|--------|
| 7053 | 1B8D | FA2: Status: Record Index Daily Newest Date | FP | MMDDYY | RO |
| 7054 | 1B8E | FA2: Status: Record Index Daily Newest Time | FP | HHMMSS | RO |
| 7055 | 1B8F | FA2: Status: Record Index Interval Newest Date | FP | MMDDYY | RO |
| 7056 | 1B90 | FA2: Status: Record Index Interval Newest Time | FP | HHMMSS | RO |
| 7057 | 1B91 | TA1: Status: Record Index Newest Date | FP | MMDDYY | RO |
| 7058 | 1B92 | TA1: Status: Record Index Newest Time | FP | HHMMSS | RO |
| 7059 | 1B93 | SA1: Status: Record Index Daily Newest Date | FP | MMDDYY | RO |
| 7060 | 1B94 | SA1: Status: Record Index Daily Newest Time | FP | HHMMSS | RO |
| 7061 | 1B95 | SA1: Status: Record Index Interval Newest Date | FP | MMDDYY | RO |
| 7062 | 1B96 | SA1: Status: Record Index Interval Newest Time | FP | HHMMSS | RO |
| 7063 | 1B97 | SA2: Status: Record Index Daily Newest Date | FP | MMDDYY | RO |
| 7064 | 1B98 | SA2: Status: Record Index Daily Newest Time | FP | HHMMSS | RO |
| 7065 | 1B99 | SA2: Status: Record Index Interval Newest Date | FP | MMDDYY | RO |
| 7066 | 1B9A | SA2: Status: Record Index Interval Newest Time | FP | HHMMSS | RO |
| 7067 | 1B9B | SA3: Status: Record Index Daily Newest Date | FP | MMDDYY | RO |
| 7068 | 1B9C | SA3: Status: Record Index Daily Newest Time | FP | HHMMSS | RO |
| 7069 | 1B9D | SA3: Status: Record Index Interval Newest Date | FP | MMDDYY | RO |
| 7070 | 1B9E | SA3: Status: Record Index Interval Newest Time | FP | HHMMSS | RO |
| 7071 | 1B9F | SA4: Status: Record Index Daily Newest Date | FP | MMDDYY | RO |
| 7072 | 1BA0 | SA4: Status: Record Index Daily Newest Time | FP | HHMMSS | RO |
| 7073 | 1BA1 | SA4: Status: Record Index Interval Newest Date | FP | MMDDYY | RO |
| 7074 | 1BA2 | SA4: Status: Record Index Interval Newest Time | FP | HHMMSS | RO |
| 7075 | 1BA3 | SA5: Status: Record Index Daily Newest Date | FP | MMDDYY | RO |
| 7076 | 1BA4 | SA5: Status: Record Index Daily Newest Time | FP | HHMMSS | RO |
| 7077 | 1BA5 | SA5: Status: Record Index Interval Newest Date | FP | MMDDYY | RO |
| 7078 | 1BA6 | SA5: Status: Record Index Interval Newest Time | FP | HHMMSS | RO |
| 7079 | 1BA7 | SA6: Status: Record Index Daily Newest Date | FP | MMDDYY | RO |
| 7080 | 1BA8 | SA6: Status: Record Index Daily Newest Time | FP | HHMMSS | RO |
| 7081 | 1BA9 | SA6: Status: Record Index Interval Newest Date | FP | MMDDYY | RO |
| 7082 | 1BAA | SA6: Status: Record Index Interval Newest Time | FP | HHMMSS | RO |
| 7083 | 1BAB | SA7: Status: Record Index Daily Newest Date | FP | MMDDYY | RO |
| 7084 | 1BAC | SA7: Status: Record Index Daily Newest Time | FP | HHMMSS | RO |
| 7085 | 1BAD | SA7: Status: Record Index Interval Newest Date | FP | MMDDYY | RO |
| 7086 | 1BAE | SA7: Status: Record Index Interval Newest Time | FP | HHMMSS | RO |
| 7087 | 1BAF | SA8: Status: Record Index Daily Newest Date | FP | MMDDYY | RO |
| 7088 | 1BB0 | SA8: Status: Record Index Daily Newest Time | FP | HHMMSS | RO |
| 7089 | 1BB1 | SA8: Status: Record Index Interval Newest Date | FP | MMDDYY | RO |
| 7090 | 1BB2 | SA8: Status: Record Index Interval Newest Time | FP | HHMMSS | RO |
| 7091 | 1BB3 | SA9: Status: Record Index Daily Newest Date | FP | MMDDYY | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|--------|--------|
| 7092 | 1BB4 | SA9: Status: Record Index Daily Newest Time | FP | HHMMSS | RO |
| 7093 | 1BB5 | SA9: Status: Record Index Interval Newest Date | FP | MMDDYY | RO |
| 7094 | 1BB6 | SA9: Status: Record Index Interval Newest Time | FP | HHMMSS | RO |
| 7095 | 1BB7 | SA10: Status: Record Index Daily Newest Date | FP | MMDDYY | RO |
| 7096 | 1BB8 | SA10: Status: Record Index Daily Newest Time | FP | HHMMSS | RO |
| 7097 | 1BB9 | SA10: Status: Record Index Interval Newest Date | FP | MMDDYY | RO |
| 7098 | 1BBA | SA10: Status: Record Index Interval Newest Time | FP | HHMMSS | RO |
| 7099 | 1BBB | SA11: Status: Record Index Daily Newest Date | FP | MMDDYY | RO |
| 7100 | 1BBC | SA11: Status: Record Index Daily Newest Time | FP | HHMMSS | RO |
| 7101 | 1BBD | SA11: Status: Record Index Interval Newest Date | FP | MMDDYY | RO |
| 7102 | 1BBE | SA11: Status: Record Index Interval Newest Time | FP | HHMMSS | RO |
| 7103 | 1BBF | SA12: Status: Record Index Daily Newest Date | FP | MMDDYY | RO |
| 7104 | 1BC0 | SA12: Status: Record Index Daily Newest Time | FP | HHMMSS | RO |
| 7105 | 1BC1 | SA12: Status: Record Index Interval Newest Date | FP | MMDDYY | RO |
| 7106 | 1BC2 | SA12: Status: Record Index Interval Newest Time | FP | HHMMSS | RO |
| 7107 | 1BC3 | SA13: Status: Record Index Daily Newest Date | FP | MMDDYY | RO |
| 7108 | 1BC4 | SA13: Status: Record Index Daily Newest Time | FP | HHMMSS | RO |
| 7109 | 1BC5 | SA13: Status: Record Index Interval Newest Date | FP | MMDDYY | RO |
| 7110 | 1BC6 | SA13: Status: Record Index Interval Newest Time | FP | HHMMSS | RO |
| 7111 | 1BC7 | SA14: Status: Record Index Daily Newest Date | FP | MMDDYY | RO |
| 7112 | 1BC8 | SA14: Status: Record Index Daily Newest Time | FP | HHMMSS | RO |
| 7113 | 1BC9 | SA14: Status: Record Index Interval Newest Date | FP | MMDDYY | RO |
| 7114 | 1BCA | SA14: Status: Record Index Interval Newest Time | FP | HHMMSS | RO |
| 7115 | 1BCB | SA15: Status: Record Index Daily Newest Date | FP | MMDDYY | RO |
| 7116 | 1BCC | SA15: Status: Record Index Daily Newest Time | FP | HHMMSS | RO |
| 7117 | 1BCD | SA15: Status: Record Index Interval Newest Date | FP | MMDDYY | RO |
| 7118 | 1BCE | SA15: Status: Record Index Interval Newest Time | FP | HHMMSS | RO |
| 7119 | 1BCF | SA16: Status: Record Index Daily Newest Date | FP | MMDDYY | RO |
| 7120 | 1BD0 | SA16: Status: Record Index Daily Newest Time | FP | HHMMSS | RO |
| 7121 | 1BD1 | SA16: Status: Record Index Interval Newest Date | FP | MMDDYY | RO |
| 7122 | 1BD2 | SA16: Status: Record Index Interval Newest Time | FP | HHMMSS | RO |
| 7123 | 1BD3 | SA17: Status: Record Index Daily Newest Date | FP | MMDDYY | RO |
| 7124 | 1BD4 | SA17: Status: Record Index Daily Newest Time | FP | HHMMSS | RO |
| 7125 | 1BD5 | SA17: Status: Record Index Interval Newest Date | FP | MMDDYY | RO |
| 7126 | 1BD6 | SA17: Status: Record Index Interval Newest Time | FP | HHMMSS | RO |
| 7127 | 1BD7 | SA18: Status: Record Index Daily Newest Date | FP | MMDDYY | RO |
| 7128 | 1BD8 | SA18: Status: Record Index Daily Newest Time | FP | HHMMSS | RO |
| 7129 | 1BD9 | SA18: Status: Record Index Interval Newest Date | FP | MMDDYY | RO |
| 7130 | 1BDA | SA18: Status: Record Index Interval Newest Time | FP | HHMMSS | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|--------|--------|
| 7131 | 1BDB | SA19: Status: Record Index Daily Newest Date | FP | MMDDYY | RO |
| 7132 | 1BDC | SA19: Status: Record Index Daily Newest Time | FP | HHMMSS | RO |
| 7133 | 1BDD | SA19: Status: Record Index Interval Newest Date | FP | MMDDYY | RO |
| 7134 | 1BDE | SA19: Status: Record Index Interval Newest Time | FP | HHMMSS | RO |
| 7135 | 1BDF | SA20: Status: Record Index Daily Newest Date | FP | MMDDYY | RO |
| 7136 | 1BE0 | SA20: Status: Record Index Daily Newest Time | FP | HHMMSS | RO |
| 7137 | 1BE1 | SA20: Status: Record Index Interval Newest Date | FP | MMDDYY | RO |
| 7138 | 1BE2 | SA20: Status: Record Index Interval Newest Time | FP | HHMMSS | RO |
| 7139 | 1BE3 | TA1: Status: Current Batch Number | | | |
| 7140 | 1BE4 | TA1: Current Record: Date | | MMDDYY | |
| 7141 | 1BE5 | TA1: Current Record: Time | | HHMMSS | |
| 7142 | 1BE6 | TA1: Current Record: F 1 | | | |
| 7143 | 1BE7 | TA1: Current Record: F 2 | | | |
| 7144 | 1BE8 | TA1: Current Record: F 3 | | | |
| 7145 | 1BE9 | TA1: Current Record: F 4 | | | |
| 7146 | 1BEA | TA1: Current Record: F 5 | | | |
| 7147 | 1BEB | TA1: Current Record: F 6 | | | |
| 7148 | 1BEC | TA1: Current Record: F 7 | | | |
| 7149 | 1BED | TA1: Current Record: F 8 | | | |
| 7150 | 1BEE | TA1: Current Record: F 9 | | | |
| 7151 | 1BEF | TA1: Current Record: F 10 | | | |
| 7152 | 1BF0 | TA1: Current Record: F 11 | | | |
| 7153 | 1BF1 | TA1: Current Record: F 12 | | | |
| 7154 | 1BF2 | TA1: Current Record: F 13 | | | |
| 7155 | 1BF3 | TA1: Current Record: F 14 | | | |
| 7156 | 1BF4 | TA1: Current Record: F 15 | | | |
| 7157 | 1BF5 | TA1: Current Record: F 16 | | | |
| 7158 | 1BF6 | TA1: Current Record: F 17 | | | |
| 7159 | 1BF7 | TA1: Current Record: F 18 | | | |
| 7160 | 1BF8 | TA1: Current Record: F 19 | | | |
| 7161 | 1BF9 | TA1: Current Record: F 20 | | | |
| 7162 | 1BFA | TA1: Status: Previous Batch Number | | | |
| 7163 | 1BFB | TA1: Previous Record: Date | | MMDDYY | |
| 7164 | 1BFC | TA1: Previous Record: Time | | HHMMSS | |
| 7165 | 1BFD | TA1: Previous Record: F 1 | | | |
| 7166 | 1BFE | TA1: Previous Record: F 2 | | | |
| 7167 | 1BFF | TA1: Previous Record: F 3 | | | |
| 7168 | 1C00 | TA1: Previous Record: F 4 | | | |
| 7169 | 1C01 | TA1: Previous Record: F 5 | | | |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|----------------------------|-----------|-------|--------|
| 7170 | 1C02 | TA1: Previous Record: F 6 | | | |
| 7171 | 1C03 | TA1: Previous Record: F 7 | | | |
| 7172 | 1C04 | TA1: Previous Record: F 8 | | | |
| 7173 | 1C05 | TA1: Previous Record: F 9 | | | |
| 7174 | 1C06 | TA1: Previous Record: F 10 | | | |
| 7175 | 1C07 | TA1: Previous Record: F 11 | | | |
| 7176 | 1C08 | TA1: Previous Record: F 12 | | | |
| 7177 | 1C09 | TA1: Previous Record: F 13 | | | |
| 7178 | 1C0 | TA1: Previous Record: F 14 | | | |
| 7179 | 1C0 | TA1: Previous Record: F 15 | | | |
| 7180 | 1C0 | TA1: Previous Record: F 16 | | | |
| 7181 | 1C0 | TA1: Previous Record: F 17 | | | |
| 1782 | 1C0E | TA1: Previous Record: F 18 | | | |
| 7183 | 1C0F | TA1: Previous Record: F 19 | | | |
| 7184 | 1C10 | TA1: Previous Record: F 20 | | | |

Input/Output Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------|--------|
| 7201 | 1C21 | Differential Pressure: Holding: Instantaneous Reading | FP | "H2O@68°F | RO |
| 7202 | 1C22 | Static Pressure: Holding: Instantaneous Reading | FP | psig | RO |
| 7203 | 1C23 | RTD1: Holding: Instantaneous Reading | FP | °F | RO |
| 7204 | 1C24 | RTD2: Holding: Instantaneous Reading | FP | °F | RO |
| 7205 | 1C25 | Analog 1: Holding: Instantaneous Reading | FP | — | RO |
| 7206 | 1C26 | Analog 1: Holding: Rate Of Change | FP | — | RO |
| 7207 | 1C27 | Analog 2: Holding: Instantaneous Reading | FP | — | RO |
| 7208 | 1C28 | Analog 2: Holding: Rate Of Change | FP | — | RO |
| 7209 | 1C29 | Analog 3: Holding: Instantaneous Reading | FP | — | RO |
| 7210 | 1C2A | Analog 3: Holding: Rate Of Change | FP | — | RO |
| 7211 | 1C2B | Analog 4: Holding: Instantaneous Reading | FP | — | RO |
| 7212 | 1C2C | Analog 4: Holding: Rate Of Change | FP | — | RO |
| 7213 | 1C2D | Pulse Input 1: Holding: Daily Run Time | FP | s | RO |
| 7214 | 1C2E | Pulse Input 1: Holding: Interval Run Time | FP | s | RO |
| 7215 | 1C2F | Pulse Input 1: Holding: Previous Daily Run Time | FP | s | RO |
| 7216 | 1C30 | Pulse Input 1: Holding: Previous Interval Run Time | FP | s | RO |
| 7217 | 1C31 | Pulse Input 2: Holding: Daily Run Time | FP | s | RO |
| 7218 | 1C32 | Pulse Input 2: Holding: Interval Run Time | FP | s | RO |
| 7219 | 1C33 | Pulse Input 2: Holding: Previous Daily Run Time | FP | s | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|------------|--------|
| 7220 | 1C34 | Pulse Input 2: Holding: Previous Interval Run Time | FP | s | RO |
| 7221 | 1C35 | Pulse Input 3: Holding: Daily Run Time | FP | s | RO |
| 7222 | 1C36 | Pulse Input 3: Holding: Interval Run Time | FP | s | RO |
| 7223 | 1C37 | Pulse Input 3: Holding: Previous Daily Run Time | FP | s | RO |
| 7224 | 1C38 | Pulse Input 3: Holding: Previous Interval Run Time | FP | s | RO |
| 7225 | 1C39 | Pulse Input 1: Holding: Grand Total | FP | bbl | RO |
| 7226 | 1C3A | Pulse Input 1: Holding: Flow Rate | FP | bbl/day | RO |
| 7227 | 1C3B | Pulse Input 1: Holding: Daily Total | FP | bbl | RO |
| 7228 | 1C3C | Pulse Input 1: Holding: Interval Total | FP | bbl | RO |
| 7229 | 1C3D | Pulse Input 1: Holding: Previous Daily Total | FP | bbl | RO |
| 7230 | 1C3E | Pulse Input 1: Holding: Previous Interval Total | FP | bbl | RO |
| 7231 | 1C3F | Pulse Input 2: Holding: Grand Total | FP | bbl | RO |
| 7232 | 1C40 | Pulse Input 2: Holding: Flow Rate | FP | bbl/day | RO |
| 7233 | 1C41 | Pulse Input 2: Holding: Daily Total | FP | bbl | RO |
| 7234 | 1C42 | Pulse Input 2: Holding: Interval Total | FP | bbl | RO |
| 7235 | 1C43 | Pulse Input 2: Holding: Previous Daily Total | FP | bbl | RO |
| 7236 | 1C44 | Pulse Input 2: Holding: Previous Interval Total | FP | bbl | RO |
| 7237 | 1C45 | Pulse Input 3: Holding: Grand Total | FP | bbl | RO |
| 7238 | 1C46 | Pulse Input 3: Holding: Flow Rate | FP | bbl/day | RO |
| 7239 | 1C47 | Pulse Input 3: Holding: Daily Total | FP | bbl | RO |
| 7240 | 1C48 | Pulse Input 3: Holding: Interval Total | FP | bbl | RO |
| 7241 | 1C49 | Pulse Input 3: Holding: Previous Daily Total | FP | bbl | RO |
| 7242 | 1C4A | Pulse Input 3: Holding: Previous Interval Total | FP | bbl | RO |
| 7243 | 1C4B | Pulse Input 1: Holding: Frequency | FP | Hz | RO |
| 7244 | 1C4C | Pulse Input 1: Holding: Active K Factor | FP | pulses/gal | RO |
| 7245 | 1C4D | Pulse Input 2: Holding: Frequency | FP | Hz | RO |
| 7246 | 1C4E | Pulse Input 2: Holding: Active K Factor | FP | pulses/gal | RO |
| 7247 | 1C4F | Pulse Input 3: Holding: Frequency | FP | Hz | RO |
| 7248 | 1C50 | Pulse Input 3: Holding: Active K Factor | FP | pulses/gal | RO |
| 7249 | 1C51 | Analog Output 1: Holding: Output | FP | mA | RW |
| 7250 | 1C52 | Analog Output 1 PID: Holding: Process Value Value | FP | — | RO |
| 7251 | 1C53 | Analog Output 1 PID: Holding: Static Pressure Value | FP | — | RO |
| 7252 | 1C54 | Analog Output 1 PID: Holding: Test Value | FP | — | RO |
| 7253 | 1C55 | Analog Output 1 PID: Holding: Output | FP | — | RO |
| 7254 | 1C56 | Analog Output 2: Holding: Output | FP | mA | RW |
| 7255 | 1C57 | Analog Output 2 PID: Holding: Process Value Value | FP | — | RO |
| 7256 | 1C58 | Analog Output 2 PID: Holding: Static Pressure Value | FP | — | RO |
| 7257 | 1C59 | Analog Output 2 PID: Holding: Test Value | FP | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 7258 | 1C5A | Analog Output 2 PID: Holding: Output | FP | — | RO |
| 7259 | 1C5B | Analog Output 1 PID: Configuration: Setpoint Tolerance | FP | — | RW |
| 7260 | 1C5C | Analog Output 1 PID: Configuration: Setpoint Dead Band | FP | — | RW |
| 7261 | 1C5D | Analog Output 1 Pressure Override: Configuration: Setpoint Tolerance | FP | — | RW |
| 7262 | 1C5E | Analog Output 1 Pressure Over: Configuration: Setpoint Dead Band | FP | — | RW |
| 7263 | 1C5F | Analog Output 2 PID: Configuration: Setpoint Tolerance | FP | — | RW |
| 7264 | 1C60 | Analog Output 2 PID: Configuration: Setpoint Dead Band | FP | — | RW |
| 7265 | 1C61 | Analog Output 2 Pressure Override: Configuration: Setpoint Tolerance | FP | — | RW |
| 7266 | 1C62 | Analog Output 2 Pressure Override: Configuration: Setpoint Dead Band | FP | — | RW |
| 7267 | 1C63 | Digital Valve 1 PID: Configuration: Setpoint Value | FP | — | RW |
| 7268 | 1C64 | Digital Valve 1 PID: Configuration: Override Value | FP | — | RW |
| 7269 | 1C65 | Digital Valve 1 PID: Configuration: Kp | FP | — | RW |
| 7270 | 1C66 | Digital Valve 1 PID: Configuration: Ki | FP | — | RW |
| 7271 | 1C67 | Digital Valve 1 PID: Configuration: Kd | FP | — | RW |
| 7272 | 1C68 | Digital Valve 1 Pressure Override: Configuration: Kp | FP | — | RW |
| 7273 | 1C69 | Digital Valve 1 Pressure Override: Configuration: Ki | FP | — | RW |
| 7274 | 1C6A | Digital Valve 1 Pressure Override: Configuration: Kd | FP | — | RW |
| 7275 | 1C6B | Digital Valve 1 PID: Configuration: Setpoint Tolerance | FP | — | RW |
| 7276 | 1C6C | Digital Valve 1 PID: Configuration: Setpoint Dead Band | FP | — | RW |
| 7277 | 1C6D | Digital Valve 1 Pressure Override: Setpoint Tolerance | FP | — | RW |
| 7278 | 1C6E | Digital Valve 1 Pressure Override: Setpoint Dead Band | FP | — | RW |

Flow Run 1 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-------|--------|
| 7401 | 1CE9 | FR1: HAccum: Daily Run Time | FP | s | RO |
| 7402 | 1CEA | FR1: HAccum: Interval Run Time | FP | s | RO |
| 7403 | 1CEB | FR1: HAccum: Triggered Run Time | FP | s | RO |
| 7404 | 1CEC | FR1: HAccum: Previous Daily Run Time | FP | s | RO |
| 7405 | 1CED | FR1: HAccum: Previous Interval Run Time | FP | s | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|---------|--------|
| 7406 | 1CEE | FR1: HAccum: Previous Triggered Run Time | FP | s | RO |
| 7407 | 1CEF | FR1: HAccum: Gas Apparent Mass Grand Total | FP | lbm | RO |
| 7408 | 1CF0 | FR1: HAccum: Gas Apparent Mass Flow Rate | FP | lbm/day | RO |
| 7409 | 1CF1 | FR1: HAccum: Gas Apparent Mass Daily Total | FP | lbm | RO |
| 7410 | 1CF2 | FR1: HAccum: Gas Apparent Mass Interval Total | FP | lbm | RO |
| 7411 | 1CF3 | FR1: HAccum: Gas Apparent Mass Triggered Total | FP | lbm | RO |
| 7412 | 1CF4 | FR1: HAccum: Gas Apparent Mass Previous Daily Total | FP | lbm | RO |
| 7413 | 1CF5 | FR1: HAccum: Gas Apparent Mass Previous Interval Total | FP | lbm | RO |
| 7414 | 1CF6 | FR1: HAccum: Gas Apparent Mass Previous Triggered Total | FP | lbm | RO |
| 7415 | 1CF7 | FR1: HAccum: Gas Volume Grand Total | FP | MCF | RO |
| 7416 | 1CF8 | FR1: HAccum: Gas Volume Flow Rate | FP | MCF/day | RO |
| 7417 | 1CF9 | FR1: HAccum: Gas Volume Daily Total | FP | MCF | RO |
| 7418 | 1CFA | FR1: HAccum: Gas Volume Interval Total | FP | MCF | RO |
| 7419 | 1CFB | FR1: HAccum: Gas Volume Triggered Total | FP | MCF | RO |
| 7420 | 1CFC | FR1: HAccum: Gas Volume Previous Daily Total | FP | MCF | RO |
| 7421 | 1CFD | FR1: HAccum: Gas Volume Previous Interval Total | FP | MCF | RO |
| 7422 | 1CFE | FR1: HAccum: Gas Volume Previous Triggered Total | FP | MCF | RO |
| 7423 | 1CFF | FR1: HAccum: Gas Mass Grand Total | FP | lbm | RO |
| 7424 | 1D00 | FR1: HAccum: Gas Mass Flow Rate | FP | lbm/day | RO |
| 7425 | 1D01 | FR1: HAccum: Gas Mass Daily Total | FP | lbm | RO |
| 7426 | 1D02 | FR1: HAccum: Gas Mass Interval Total | FP | lbm | RO |
| 7427 | 1D03 | FR1: HAccum: Gas Mass Triggered Total | FP | lbm | RO |
| 7428 | 1D04 | FR1: HAccum: Gas Mass Previous Daily Total | FP | lbm | RO |
| 7429 | 1D05 | FR1: HAccum: Gas Mass Previous Interval Total | FP | lbm | RO |
| 7430 | 1D06 | FR1: HAccum: Gas Mass Previous Triggered Total | FP | lbm | RO |
| 7431 | 1D07 | FR1: HAccum: Gas Energy Grand Total | FP | Btu | RO |
| 7432 | 1D08 | FR1: HAccum: Gas Energy Flow Rate | FP | Btu/day | RO |
| 7433 | 1D09 | FR1: HAccum: Gas Energy Daily Total | FP | Btu | RO |
| 7434 | 1D0A | FR1: HAccum: Gas Energy Interval Total | FP | Btu | RO |
| 7435 | 1D0B | FR1: HAccum: Gas Energy Triggered Total | FP | Btu | RO |
| 7436 | 1D0C | FR1: HAccum: Gas Energy Previous Daily Total | FP | Btu | RO |
| 7437 | 1D0D | FR1: HAccum: Gas Energy Previous Interval Total | FP | Btu | RO |
| 7438 | 1D0E | FR1: HAccum: Gas Energy Previous Triggered Total | FP | Btu | RO |
| 7439 | 1D0F | FR1: HAccum: Liquid Oil Volume Grand Total | FP | bbl | RO |
| 7440 | 1D10 | FR1: HAccum: Liquid Oil Volume Flow Rate | FP | bbl/day | RO |
| 7441 | 1D11 | FR1: HAccum: Liquid Oil Volume Daily Total | FP | bbl | RO |
| 7442 | 1D12 | FR1: HAccum: Liquid Oil Volume Interval Total | FP | bbl | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|----------|--------|
| 7443 | 1D13 | FR1: HAccum: Liquid Oil Volume Triggered Total | FP | bbbl | RO |
| 7444 | 1D14 | FR1: HAccum: Liquid Oil Volume Previous Daily Total | FP | bbbl | RO |
| 7445 | 1D15 | FR1: HAccum: Liquid Oil Volume Previous Interval Total | FP | bbbl | RO |
| 7446 | 1D16 | FR1: HAccum: Liquid Oil Volume Previous Triggered Total | FP | bbbl | RO |
| 7447 | 1D17 | FR1: HAccum: Liquid Oil Net Volume Grand Total | FP | bbbl | RO |
| 7448 | 1D18 | FR1: HAccum: Liquid Oil Net Volume Flow Rate | FP | bbbl/day | RO |
| 7449 | 1D19 | FR1: HAccum: Liquid Oil Net Volume Daily Total | FP | bbbl | RO |
| 7450 | 1D1A | FR1: HAccum: Liquid Oil Net Volume Interval Total | FP | bbbl | RO |
| 7451 | 1D1B | FR1: HAccum: Liquid Oil Net Volume Triggered Total | FP | bbbl | RO |
| 7452 | 1D1C | FR1: HAccum: Liquid Oil Net Volume Previous Daily Total | FP | bbbl | RO |
| 7453 | 1D1D | FR1: HAccum: Liquid Oil Net Volume Previous Interval Total | FP | bbbl | RO |
| 7454 | 1D1E | FR1: HAccum: Liquid Oil Net Volume Previous Triggered Total | FP | bbbl | RO |
| 7455 | 1D1F | FR1: HAccum: Liquid Oil Mass Grand Total | FP | lbm | RO |
| 7456 | 1D20 | FR1: HAccum: Liquid Oil Mass Flow Rate | FP | lbm/day | RO |
| 7457 | 1D21 | FR1: HAccum: Liquid Oil Mass Daily Total | FP | lbm | RO |
| 7458 | 1D22 | FR1: HAccum: Liquid Oil Mass Interval Total | FP | lbm | RO |
| 7459 | 1D23 | FR1: HAccum: Liquid Oil Mass Triggered Total | FP | lbm | RO |
| 7460 | 1D24 | FR1: HAccum: Liquid Oil Mass Previous Daily Total | FP | lbm | RO |
| 7461 | 1D25 | FR1: HAccum: Liquid Oil Mass Previous Interval Total | FP | lbm | RO |
| 7462 | 1D26 | FR1: HAccum: Liquid Oil Mass Previous Triggered Total | FP | lbm | RO |
| 7463 | 1D27 | FR1: HAccum: Liquid Water Volume Grand Total | FP | bbbl | RO |
| 7464 | 1D28 | FR1: HAccum: Liquid Water Volume Flow Rate | FP | bbbl/day | RO |
| 7465 | 1D29 | FR1: HAccum: Liquid Water Volume Daily Total | FP | bbbl | RO |
| 7466 | 1D2A | FR1: HAccum: Liquid Water Volume Interval Total | FP | bbbl | RO |
| 7467 | 1D2B | FR1: HAccum: Liquid Water Volume Triggered Total | FP | bbbl | RO |
| 7468 | 1D2C | FR1: HAccum: Liquid Water Volume Previous Daily Total | FP | bbbl | RO |
| 7469 | 1D2D | FR1: HAccum: Liquid Water Volume Previous Interval Total | FP | bbbl | RO |
| 7470 | 1D2E | FR1: HAccum: Liquid Water Volume Previous Triggered Total | FP | bbbl | RO |
| 7471 | 1D2F | FR1: HAccum: Liquid Water Mass Grand Total | FP | lbm | RO |
| 7472 | 1D30 | FR1: HAccum: Liquid Water Mass Flow Rate | FP | lbm/day | RO |
| 7473 | 1D31 | FR1: HAccum: Liquid Water Mass Daily Total | FP | lbm | RO |
| 7474 | 1D32 | FR1: HAccum: Liquid Water Mass Interval Total | FP | lbm | RO |
| 7475 | 1D33 | FR1: HAccum: Liquid Water Mass Triggered Total | FP | lbm | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------------------|--------|
| 7476 | 1D34 | FR1: HAccum: Liquid Water Mass Previous Daily Total | FP | lbm | RO |
| 7477 | 1D35 | FR1: HAccum: Liquid Water Mass Previous Interval Total | FP | lbm | RO |
| 7478 | 1D36 | FR1: HAccum: Liquid Water Mass Previous Triggered Total | FP | lbm | RO |
| 7479 | 1D37 | FR1: HFluid: Pseudocritical Pressure | FP | psia | RO |
| 7480 | 1D38 | FR1: HFluid: Pseudocritical Temperature | FP | °F | RO |
| 7481 | 1D39 | FR1: HFluid: Pitzer Acentric Factor | FP | — | RO |
| 7482 | 1D3A | FR1: HFluid: Ideal Absolute Viscosity | FP | lbm/ft•s | RO |
| 7483 | 1D3B | FR1: HFluid: Molar Mass | FP | kg/kg•mol | RO |
| 7484 | 1D3C | FR1: HFluid: Fuel H to C Ratio | FP | — | RO |
| 7485 | 1D3D | FR1: HFluid: Base Temperature | FP | °F | RO |
| 7486 | 1D3E | FR1: HFluid: Base Pressure Absolute | FP | psia | RO |
| 7487 | 1D3F | FR1: HFluid: Gas Base Density | FP | lbm/ft ³ | RO |
| 7488 | 1D40 | FR1: HFluid: Gas Base Viscosity | FP | lbm/ft•s | RO |
| 7489 | 1D41 | FR1: HFluid: Gas Base Molar Density | FP | kg•mol/m ³ | RO |
| 7490 | 1D42 | FR1: HFluid: Gas Base Compressibility Factor | FP | — | RO |
| 7491 | 1D43 | FR1: HFluid: Flowing Temperature | FP | °F | RO |
| 7492 | 1D44 | FR1: HFluid: Flowing Pressure Absolute | FP | psia | RO |
| 7493 | 1D45 | FR1: HFluid: Gas Flowing Density | FP | lbm/ft ³ | RO |
| 7494 | 1D46 | FR1: HFluid: Gas Flowing Viscosity | FP | lbm/ft•s | RO |
| 7495 | 1D47 | FR1: HFluid: Gas Flowing Molar Density | FP | kg•mol/m ³ | RO |
| 7496 | 1D48 | FR1: HFluid: Gas Flowing Compressibility Factor | FP | — | RO |
| 7497 | 1D49 | FR1: HFluid: Air Density | FP | lbm/ft ³ | RO |
| 7498 | 1D4A | FR1: HFluid: Air Molar Density | FP | kg•mol/m ³ | RO |
| 7499 | 1D4B | FR1: HFluid: Combustion Reference Temperature | FP | °F | RO |
| 7500 | 1D4C | FR1: HFluid: Molar Combustion Heating Value 25 C | FP | MMBtu/lb•mol | RO |
| 7501 | 1D4D | FR1: HFluid: Molar Combustion Heating Value | FP | MMBtu/lb•mol | RO |
| 7502 | 1D4E | FR1: HFluid: Mass Combustion Heating Value | FP | MMBtu/lbm | RO |
| 7503 | 1D4F | FR1: HFluid: Gross Volume Combustion Heating Value | FP | MMBtu/ft ³ | RO |
| 7504 | 1D50 | FR1: HFluid: User Mass Combustion Heating Value | FP | MMBtu/lbm | RO |
| 7505 | 1D51 | FR1: HFluid: User Gross Volume Combustion Heating Value | FP | MMBtu/ft ³ | RO |
| 7506 | 1D52 | FR1: HFluid: Vapor Pressure Of Water | FP | psia | RO |
| 7507 | 1D53 | FR1: HFluid: Net Volume Combustion Heating Value | FP | MMBtu/ft ³ | RO |
| 7508 | 1D54 | FR1: HFluid: Wobbe Index | FP | — | RO |
| 7509 | 1D55 | FR1: HFluid: Motor Octane Number Linear | FP | — | RO |
| 7510 | 1D56 | FR1: HFluid: Motor Octane Number CARB | FP | — | RO |
| 7511 | 1D57 | FR1: HFluid: Methane Number Linear | FP | — | RO |
| 7512 | 1D58 | FR1: HFluid: Methane Number CARB | FP | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|---------------------|--------|
| 7513 | 1D59 | FR1: HFluid: Heat Of Vaporization Of Water | FP | Btu | RO |
| 7514 | 1D5A | FR1: HFluid: Enthalpy Change Of Vapor Water | FP | Btu | RO |
| 7515 | 1D5B | FR1: HFluid: Enthalpy Change Of Liquid Water | FP | Btu | RO |
| 7516 | 1D5C | FR1: HFluid: Isentropic Exponent | FP | — | RO |
| 7517 | 1D5D | FR1: HFluid: Joule Thompson Coefficient | FP | — | RO |
| 7518 | 1D5E | FR1: HFluid: Enthalpy Composite | FP | MMBtu/lbm | RO |
| 7519 | 1D5F | FR1: HFluid: Gross CH Pseudocomponent | FP | — | RO |
| 7520 | 1D60 | FR1: HFluid: Gross Carbon Dioxide | FP | — | RO |
| 7521 | 1D61 | FR1: HFluid: Gross Nitrogen | FP | — | RO |
| 7522 | 1D62 | FR1: HFluid: Gross Carbon Monoxide | FP | — | RO |
| 7523 | 1D63 | FR1: HFluid: Gross Hydrogen | FP | — | RO |
| 7524 | 1D64 | FR1: HFluid: Gross Specific Gravity | FP | — | RO |
| 7525 | 1D65 | FR1: HFluid: Liquid Base Viscosity | FP | lbm/ft•s | RO |
| 7526 | 1D66 | FR1: HFluid: Liquid Flowing Viscosity | FP | lbm/ft•s | RO |
| 7527 | 1D67 | FR1: HFluid: Liquid Alpha | FP | 1/°F | RO |
| 7528 | 1D68 | FR1: HFluid: Liquid Equilibrium Vapor Pressure | FP | psia | RO |
| 7529 | 1D69 | FR1: HFluid: Correction For Temperature On Liquid | FP | — | RO |
| 7530 | 1D6A | FR1: HFluid: Correction For Pressure On Liquid | FP | — | RO |
| 7531 | 1D6B | FR1: HFluid: Composite Correction On Liquid | FP | — | RO |
| 7532 | 1D6C | FR1: HFluid: Gas To Liquid Volume Ratio | FP | — | RO |
| 7533 | 1D6D | FR1: HFluid: Liquid Oil Mass Fraction | FP | — | RO |
| 7534 | 1D6E | FR1: HFluid: Liquid Shrinkage Factor | FP | — | RO |
| 7535 | 1D6F | FR1: HFluid: Liquid BSW | FP | % | RO |
| 7536 | 1D70 | FR1: HFluid: Liquid Oil Base Density | FP | lbm/ft ³ | RO |
| 7537 | 1D71 | FR1: HFluid: Liquid Oil Flowing Density | FP | lbm/ft ³ | RO |
| 7538 | 1D72 | FR1: HFluid: Liquid Water Base Density | FP | lbm/ft ³ | RO |
| 7539 | 1D73 | FR1: HFluid: Liquid Water Flowing Density | FP | lbm/ft ³ | RO |
| 7540 | 1D74 | FR1: HFluid: Liquid Composite Flowing Density | FP | lbm/ft ³ | RO |
| 7541 | 1D75 | FR1: HFlow: Reference Orifice Diameter | FP | inch | RO |
| 7542 | 1D76 | FR1: HFlow: Reference Meter Tube Inside Diameter | FP | inch | RO |
| 7543 | 1D77 | FR1: HFlow: Reference Orifice Temperature | FP | °F | RO |
| 7544 | 1D78 | FR1: HFlow: Reference Meter Tube Temperature | FP | °F | RO |
| 7545 | 1D79 | FR1: HFlow: Throat Alpha | FP | 1/°F | RO |
| 7546 | 1D7A | FR1: HFlow: Meter Tube Alpha | FP | 1/°F | RO |
| 7547 | 1D7B | FR1: HFlow: Flowing Orifice Diameter | FP | inch | RO |
| 7548 | 1D7C | FR1: HFlow: Flowing Meter Tube Inside Diameter | FP | inch | RO |
| 7549 | 1D7D | FR1: HFlow: Flowing Weep Hole Diameter | FP | inch | RO |
| 7550 | 1D7E | FR1: HFlow: Weep Hole Adjustment Factor | FP | — | RO |
| 7551 | 1D7F | FR1: HFlow: Flowing Beta Ratio | FP | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------|--------|
| 7552 | 1D80 | FR1: HFlow: Flowing Discharge Coefficient | FP | — | RO |
| 7553 | 1D81 | FR1: HFlow: Flowing Meter Factor | FP | — | RO |
| 7554 | 1D82 | FR1: HFlow: Annubar C1 Coefficient | FP | — | RO |
| 7555 | 1D83 | FR1: HFlow: Annubar C2 Coefficient | FP | — | RO |
| 7556 | 1D84 | FR1: HFlow: Wedge Calibration Factor | FP | — | RO |
| 7557 | 1D85 | FR1: HFlow: Flowing Differential Pressure | FP | "H2O@68°F | RO |
| 7558 | 1D86 | FR1: HFlow: Flowing Temperature | FP | °F | RO |
| 7559 | 1D87 | FR1: HFlow: Flowing Upstream Pressure | FP | psia | RO |
| 7560 | 1D88 | FR1: HFlow: Flowing Square Root Of Diff Pres | FP | — | RO |
| 7561 | 1D89 | FR1: HFlow: Uncorrected Accumulation | FP | — | RO |
| 7562 | 1D8A | FR1: HFlow: Stability Index | FP | — | RO |
| 7563 | 1D8B | FR1: HFlow: Reynolds Number Pipe | FP | — | RO |
| 7564 | 1D8C | FR1: HFlow: Expansion Factor | FP | — | RO |
| 7565 | 1D8D | FR1: HFlow: Velocity Of Approach Factor | FP | — | RO |
| 7566 | 1D8E | FR1: HFlow: Flow Extension | FP | — | RO |
| 7567 | 1D8F | FR1: HFlow: Gas Apparent Mass Flow Rate Flow Weighted | FP | lbm/day | RO |
| 7568 | 1D90 | FR1: HFlow: Gas Densimetric Froude Number | FP | — | RO |
| 7569 | 1D91 | FR1: HFlow: Liquid Apparent Mass Flow Rate Flow Weighted | FP | lbm/day | RO |
| 7570 | 1D92 | FR1: HFlow: Liquid Apparent Volume Flow Rate Flow Weighted | FP | bbl/day | RO |
| 7571 | 1D93 | FR1: HFlow: Liquid Densimetric Froude Number | FP | — | RO |
| 7572 | 1D94 | FR1: HFlow: Lockhart Martinelli Parameter | FP | — | RO |
| 7573 | 1D95 | FR1: HFlow: Chisholm Coefficient | FP | — | RO |
| 7574 | 1D96 | FR1: HFlow: Multiphase Correction Factor | FP | — | RO |
| 7575 | 1D97 | FR1: HFlow: Gas Mass Flow Rate Flow Weighted | FP | lbm/day | RO |
| 7576 | 1D98 | FR1: HFlow: Gas Volume Flow Rate Flow Weighted | FP | MCF/day | RO |
| 7577 | 1D99 | FR1: HFlow: Gas Energy Flow Rate Flow Weighted | FP | Btu/day | RO |
| 7578 | 1D9A | FR1: HFlow: Liquid Oil Mass Flow Rate Flow Weighted | FP | lbm/day | RO |
| 7579 | 1D9B | FR1: HFlow: Liquid Oil Volume Flow Rate Flow Weighted | FP | bbl/day | RO |
| 7580 | 1D9C | FR1: HFlow: Liquid Oil Net Volume Flow Rate Flow Weighted | FP | bbl/day | RO |
| 7581 | 1D9D | FR1: HFlow: Liquid Water Mass Flow Rate Flow Weighted | FP | lbm/day | RO |
| 7582 | 1D9E | FR1: HFlow: Liquid Water Volume Flow Rate Flow Weighted | FP | bbl/day | RO |
| 7583 | 1D9F | FR1: HFluid: Gas Specific Gravity | FP | — | RO |
| 7584 | 1DA0 | FR1: HFluid: Liquid Oil Base API Gravity | FP | — | RO |
| 7585 | 1DA1 | FR1: HFluid: Liquid Oil Base Specific Gravity | FP | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 7586 | 1DA2 | FR1: HFluid: Liquid Oil Flowing API Gravity | FP | — | RO |
| 7587 | 1DA3 | FR1: HFluid: Liquid Oil Flowing Specific Gravity | FP | — | RO |
| 7588 | 1DA4 | FR1: HFluid: Liquid Composite Flowing API Gravity | FP | — | RO |
| 7589 | 1DA5 | FR1: HFluid: Liquid Composite Flowing Specific Gravity | FP | — | RO |
| 7590 | 1DA6 | FR1: HFluid: Speed of Sound | FP | m/s | RO |

Flow Run 2 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|---------|--------|
| 7601 | 1DB1 | FR2: HAccum: Daily Run Time | FP | s | RO |
| 7602 | 1DB2 | FR2: HAccum: Interval Run Time | FP | s | RO |
| 7603 | 1DB3 | FR2: HAccum: Triggered Run Time | FP | s | RO |
| 7604 | 1DB4 | FR2: HAccum: Previous Daily Run Time | FP | s | RO |
| 7605 | 1DB5 | FR2: HAccum: Previous Interval Run Time | FP | s | RO |
| 7606 | 1DB6 | FR2: HAccum: Previous Triggered Run Time | FP | s | RO |
| 7607 | 1DB7 | FR2: HAccum: Gas Apparent Mass Grand Total | FP | lbm | RO |
| 7608 | 1DB8 | FR2: HAccum: Gas Apparent Mass Flow Rate | FP | lbm/day | RO |
| 7609 | 1DB9 | FR2: HAccum: Gas Apparent Mass Daily Total | FP | lbm | RO |
| 7610 | 1DBA | FR2: HAccum: Gas Apparent Mass Interval Total | FP | lbm | RO |
| 7611 | 1DBB | FR2: HAccum: Gas Apparent Mass Triggered Total | FP | lbm | RO |
| 7612 | 1DBC | FR2: HAccum: Gas Apparent Mass Previous Daily Total | FP | lbm | RO |
| 7613 | 1DBD | FR2: HAccum: Gas Apparent Mass Previous Interval Total | FP | lbm | RO |
| 7614 | 1DBE | FR2: HAccum: Gas Apparent Mass Previous Triggered Total | FP | lbm | RO |
| 7615 | 1DBF | FR2: HAccum: Gas Volume Grand Total | FP | MCF | RO |
| 7616 | 1DC0 | FR2: HAccum: Gas Volume Flow Rate | FP | MCF/day | RO |
| 7617 | 1DC1 | FR2: HAccum: Gas Volume Daily Total | FP | MCF | RO |
| 7618 | 1DC2 | FR2: HAccum: Gas Volume Interval Total | FP | MCF | RO |
| 7619 | 1DC3 | FR2: HAccum: Gas Volume Triggered Total | FP | MCF | RO |
| 7620 | 1DC4 | FR2: HAccum: Gas Volume Previous Daily Total | FP | MCF | RO |
| 7621 | 1DC5 | FR2: HAccum: Gas Volume Previous Interval Total | FP | MCF | RO |
| 7622 | 1DC6 | FR2: HAccum: Gas Volume Previous Triggered Total | FP | MCF | RO |
| 7623 | 1DC7 | FR2: HAccum: Gas Mass Grand Total | FP | lbm | RO |
| 7624 | 1DC8 | FR2: HAccum: Gas Mass Flow Rate | FP | lbm/day | RO |
| 7625 | 1DC9 | FR2: HAccum: Gas Mass Daily Total | FP | lbm | RO |
| 7626 | 1DCA | FR2: HAccum: Gas Mass Interval Total | FP | lbm | RO |
| 7627 | 1DCB | FR2: HAccum: Gas Mass Triggered Total | FP | lbm | RO |
| 7628 | 1DCC | FR2: HAccum: Gas Mass Previous Daily Total | FP | lbm | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|---------|--------|
| 7629 | 1DCD | FR2: HAccum: Gas Mass Previous Interval Total | FP | lbm | RO |
| 7630 | 1DCE | FR2: HAccum: Gas Mass Previous Triggered Total | FP | lbm | RO |
| 7631 | 1DCF | FR2: HAccum: Gas Energy Grand Total | FP | Btu | RO |
| 7632 | 1DD0 | FR2: HAccum: Gas Energy Flow Rate | FP | Btu/day | RO |
| 7633 | 1DD1 | FR2: HAccum: Gas Energy Daily Total | FP | Btu | RO |
| 7634 | 1DD2 | FR2: HAccum: Gas Energy Interval Total | FP | Btu | RO |
| 7635 | 1DD3 | FR2: HAccum: Gas Energy Triggered Total | FP | Btu | RO |
| 7636 | 1DD4 | FR2: HAccum: Gas Energy Previous Daily Total | FP | Btu | RO |
| 7637 | 1DD5 | FR2: HAccum: Gas Energy Previous Interval Total | FP | Btu | RO |
| 7638 | 1DD6 | FR2: HAccum: Gas Energy Previous Triggered Total | FP | Btu | RO |
| 7639 | 1DD7 | FR2: HAccum: Liquid Oil Volume Grand Total | FP | bbl | RO |
| 7640 | 1DD8 | FR2: HAccum: Liquid Oil Volume Flow Rate | FP | bbl/day | RO |
| 7641 | 1DD9 | FR2: HAccum: Liquid Oil Volume Daily Total | FP | bbl | RO |
| 7642 | 1DDA | FR2: HAccum: Liquid Oil Volume Interval Total | FP | bbl | RO |
| 7643 | 1DDB | FR2: HAccum: Liquid Oil Volume Triggered Total | FP | bbl | RO |
| 7644 | 1DDC | FR2: HAccum: Liquid Oil Volume Previous Daily Total | FP | bbl | RO |
| 7645 | 1DDD | FR2: HAccum: Liquid Oil Volume Previous Interval Total | FP | bbl | RO |
| 7646 | 1DDE | FR2: HAccum: Liquid Oil Volume Previous Triggered Total | FP | bbl | RO |
| 7647 | 1DDF | FR2: HAccum: Liquid Oil Net Volume Grand Total | FP | bbl | RO |
| 7648 | 1DE0 | FR2: HAccum: Liquid Oil Net Volume Flow Rate | FP | bbl/day | RO |
| 7649 | 1DE1 | FR2: HAccum: Liquid Oil Net Volume Daily Total | FP | bbl | RO |
| 7650 | 1DE2 | FR2: HAccum: Liquid Oil Net Volume Interval Total | FP | bbl | RO |
| 7651 | 1DE3 | FR2: HAccum: Liquid Oil Net Volume Triggered Total | FP | bbl | RO |
| 7652 | 1DE4 | FR2: HAccum: Liquid Oil Net Volume Previous Daily Total | FP | bbl | RO |
| 7653 | 1DE5 | FR2: HAccum: Liquid Oil Net Volume Previous Interval Total | FP | bbl | RO |
| 7654 | 1DE6 | FR2: HAccum: Liquid Oil Net Volume Previous Triggered Total | FP | bbl | RO |
| 7655 | 1DE7 | FR2: HAccum: Liquid Oil Mass Grand Total | FP | lbm | RO |
| 7656 | 1DE8 | FR2: HAccum: Liquid Oil Mass Flow Rate | FP | lbm/day | RO |
| 7657 | 1DE9 | FR2: HAccum: Liquid Oil Mass Daily Total | FP | lbm | RO |
| 7658 | 1DEA | FR2: HAccum: Liquid Oil Mass Interval Total | FP | lbm | RO |
| 7659 | 1DEB | FR2: HAccum: Liquid Oil Mass Triggered Total | FP | lbm | RO |
| 7660 | 1DEC | FR2: HAccum: Liquid Oil Mass Previous Daily Total | FP | lbm | RO |
| 7661 | 1DED | FR2: HAccum: Liquid Oil Mass Previous Interval Total | FP | lbm | RO |
| 7662 | 1DEE | FR2: HAccum: Liquid Oil Mass Previous Triggered Total | FP | lbm | RO |
| 7663 | 1DEF | FR2: HAccum: Liquid Water Volume Grand Total | FP | bbl | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------------------|--------|
| 7664 | 1DF0 | FR2: HAccum: Liquid Water Volume Flow Rate | FP | bbl/day | RO |
| 7665 | 1DF1 | FR2: HAccum: Liquid Water Volume Daily Total | FP | bbl | RO |
| 7666 | 1DF2 | FR2: HAccum: Liquid Water Volume Interval Total | FP | bbl | RO |
| 7667 | 1DF3 | FR2: HAccum: Liquid Water Volume Triggered Total | FP | bbl | RO |
| 7668 | 1DF4 | FR2: HAccum: Liquid Water Volume Previous Daily Total | FP | bbl | RO |
| 7669 | 1DF5 | FR2: HAccum: Liquid Water Volume Previous Interval Total | FP | bbl | RO |
| 7670 | 1DF6 | FR2: HAccum: Liquid Water Volume Previous Triggered Total | FP | bbl | RO |
| 7671 | 1DF7 | FR2: HAccum: Liquid Water Mass Grand Total | FP | lbm | RO |
| 7672 | 1DF8 | FR2: HAccum: Liquid Water Mass Flow Rate | FP | lbm/day | RO |
| 7673 | 1DF9 | FR2: HAccum: Liquid Water Mass Daily Total | FP | lbm | RO |
| 7674 | 1DFA | FR2: HAccum: Liquid Water Mass Interval Total | FP | lbm | RO |
| 7675 | 1DFB | FR2: HAccum: Liquid Water Mass Triggered Total | FP | lbm | RO |
| 7676 | 1DFC | FR2: HAccum: Liquid Water Mass Previous Daily Total | FP | lbm | RO |
| 7677 | 1DFD | FR2: HAccum: Liquid Water Mass Previous Interval Total | FP | lbm | RO |
| 7678 | 1DFE | FR2: HAccum: Liquid Water Mass Previous Triggered Total | FP | lbm | RO |
| 7679 | 1DFF | FR2: HFluid: Pseudocritical Pressure | FP | psia | RO |
| 7680 | 1E00 | FR2: HFluid: Pseudocritical Temperature | FP | °F | RO |
| 7681 | 1E01 | FR2: HFluid: Pitzer Acentric Factor | FP | — | RO |
| 7682 | 1E02 | FR2: HFluid: Ideal Absolute Viscosity | FP | lbm/ft·s | RO |
| 7683 | 1E03 | FR2: HFluid: Molar Mass | FP | kg/kg·mol | RO |
| 7684 | 1E04 | FR2: HFluid: Fuel H to C Ratio | FP | — | RO |
| 7685 | 1E05 | FR2: HFluid: Base Temperature | FP | °F | RO |
| 7686 | 1E06 | FR2: HFluid: Base Pressure Absolute | FP | psia | RO |
| 7687 | 1E07 | FR2: HFluid: Gas Base Density | FP | lbm/ft ³ | RO |
| 7688 | 1E08 | FR2: HFluid: Gas Base Viscosity | FP | lbm/ft·s | RO |
| 7689 | 1E09 | FR2: HFluid: Gas Base Molar Density | FP | kg·mol/m ³ | RO |
| 7690 | 1E0A | FR2: HFluid: Gas Base Compressibility Factor | FP | — | RO |
| 7691 | 1E0B | FR2: HFluid: Flowing Temperature | FP | °F | RO |
| 7692 | 1E0C | FR2: HFluid: Flowing Pressure Absolute | FP | psia | RO |
| 7693 | 1E0D | FR2: HFluid: Gas Flowing Density | FP | lbm/ft ³ | RO |
| 7694 | 1E0E | FR2: HFluid: Gas Flowing Viscosity | FP | lbm/ft·s | RO |
| 7695 | 1E0F | FR2: HFluid: Gas Flowing Molar Density | FP | kg·mol/m ³ | RO |
| 7696 | 1E10 | FR2: HFluid: Gas Flowing Compressibility Factor | FP | — | RO |
| 7697 | 1E11 | FR2: HFluid: Air Density | FP | lbm/ft ³ | RO |
| 7698 | 1E12 | FR2: HFluid: Air Molar Density | FP | kg·mol/m ³ | RO |
| 7699 | 1E13 | FR2: HFluid: Combustion Reference Temperature | FP | °F | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|--------------|--------|
| 7700 | 1E14 | FR2: HFluid: Molar Combustion Heating Value 25°C | FP | MMBtu/lb·mol | RO |
| 7701 | 1E15 | FR2: HFluid: Molar Combustion Heating Value | FP | MMBtu/lb·mol | RO |
| 7702 | 1E16 | FR2: HFluid: Mass Combustion Heating Value | FP | MMBtu/lbm | RO |
| 7703 | 1E17 | FR2: HFluid: Gross Volume Combustion Heating Value | FP | MMBtu/ft³ | RO |
| 7704 | 1E18 | FR2: HFluid: User Mass Combustion Heating Value | FP | MMBtu/lbm | RO |
| 7705 | 1E19 | FR2: HFluid: User Gross Volume Combustion Heating Value | FP | MMBtu/ft³ | RO |
| 7706 | 1E1A | FR2: HFluid: Vapor Pressure Of Water | FP | psia | RO |
| 7707 | 1E1B | FR2: HFluid: Net Volume Combustion Heating Value | FP | MMBtu/ft³ | RO |
| 7708 | 1E1C | FR2: HFluid: Wobbe Index | FP | — | RO |
| 7709 | 1E1D | FR2: HFluid: Motor Octane Number Linear | FP | — | RO |
| 7710 | 1E1E | FR2: HFluid: Motor Octane Number CARB | FP | — | RO |
| 7711 | 1E1F | FR2: HFluid: Methane Number Linear | FP | — | RO |
| 7712 | 1E20 | FR2: HFluid: Methane Number CARB | FP | — | RO |
| 7713 | 1E21 | FR2: HFluid: Heat Of Vaporization Of Water | FP | Btu | RO |
| 7714 | 1E22 | FR2: HFluid: Enthalpy Change Of Vapor Water | FP | Btu | RO |
| 7715 | 1E23 | FR2: HFluid: Enthalpy Change Of Liquid Water | FP | Btu | RO |
| 7716 | 1E24 | FR2: HFluid: Isentropic Exponent | FP | — | RO |
| 7717 | 1E25 | FR2: HFluid: Joule Thompson Coefficient | FP | — | RO |
| 7718 | 1E26 | FR2: HFluid: Enthalpy Composite | FP | MMBtu/lbm | RO |
| 7719 | 1E27 | FR2: HFluid: Gross CH Pseudocomponent | FP | — | RO |
| 7720 | 1E28 | FR2: HFluid: Gross Carbon Dioxide | FP | — | RO |
| 7721 | 1E29 | FR2: HFluid: Gross Nitrogen | FP | — | RO |
| 7722 | 1E2A | FR2: HFluid: Gross Carbon Monoxide | FP | — | RO |
| 7723 | 1E2B | FR2: HFluid: Gross Hydrogen | FP | — | RO |
| 7724 | 1E2C | FR2: HFluid: Gross Specific Gravity | FP | — | RO |
| 7725 | 1E2D | FR2: HFluid: Liquid Base Viscosity | FP | lbm/ft·s | RO |
| 7726 | 1E2E | FR2: HFluid: Liquid Flowing Viscosity | FP | lbm/ft·s | RO |
| 7727 | 1E2F | FR2: HFluid: Liquid Alpha | FP | 1/°F | RO |
| 7728 | 1E30 | FR2: HFluid: Liquid Equilibrium Vapor Pressure | FP | psia | RO |
| 7729 | 1E31 | FR2: HFluid: Correction For Temperature On Liquid | FP | — | RO |
| 7730 | 1E32 | FR2: HFluid: Correction For Pressure On Liquid | FP | — | RO |
| 7731 | 1E33 | FR2: HFluid: Composite Correction On Liquid | FP | — | RO |
| 7732 | 1E34 | FR2: HFluid: Gas To Liquid Volume Ratio | FP | — | RO |
| 7733 | 1E35 | FR2: HFluid: Liquid Oil Mass Fraction | FP | — | RO |
| 7734 | 1E36 | FR2: HFluid: Liquid Shrinkage Factor | FP | — | RO |
| 7735 | 1E37 | FR2: HFluid: Liquid BSW | FP | % | RO |
| 7736 | 1E38 | FR2: HFluid: Liquid Oil Base Density | FP | lbm/ft³ | RO |
| 7737 | 1E39 | FR2: HFluid: Liquid Oil Flowing Density | FP | lbm/ft³ | RO |
| 7738 | 1E3A | FR2: HFluid: Liquid Water Base Density | FP | lbm/ft³ | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|---------------------|--------|
| 7739 | 1E3B | FR2: HFluid: Liquid Water Flowing Density | FP | lbm/ft ³ | RO |
| 7740 | 1E3C | FR2: HFluid: Liquid Composite Flowing Density | FP | lbm/ft ³ | RO |
| 7741 | 1E3D | FR2: HFlow: Reference Orifice Diameter | FP | inch | RO |
| 7742 | 1E3E | FR2: HFlow: Reference Meter Tube Inside Diameter | FP | inch | RO |
| 7743 | 1E3F | FR2: HFlow: Reference Orifice Temperature | FP | °F | RO |
| 7744 | 1E40 | FR2: HFlow: Reference Meter Tube Temperature | FP | °F | RO |
| 7745 | 1E41 | FR2: HFlow: Orifice Alpha | FP | 1/°F | RO |
| 7746 | 1E42 | FR2: HFlow: Meter Tube Alpha | FP | 1/°F | RO |
| 7747 | 1E43 | FR2: HFlow: Flowing Orifice Diameter | FP | inch | RO |
| 7748 | 1E44 | FR2: HFlow: Flowing Meter Tube Inside Diameter | FP | inch | RO |
| 7749 | 1E45 | FR2: HFlow: Flowing Weep Hole Diameter | FP | inch | RO |
| 7750 | 1E46 | FR2: HFlow: Weep Hole Adjustment Factor | FP | — | RO |
| 7751 | 1E47 | FR2: HFlow: Flowing Beta Ratio | FP | — | RO |
| 7752 | 1E48 | FR2: HFlow: Flowing Discharge Coefficient | FP | — | RO |
| 7753 | 1E49 | FR2: HFlow: Flowing Meter Factor | FP | — | RO |
| 7754 | 1E4A | FR2: HFlow: Annubar C1 Coefficient | FP | — | RO |
| 7755 | 1E4B | FR2: HFlow: Annubar C2 Coefficient | FP | — | RO |
| 7756 | 1E4C | FR2: HFlow: Wedge Calibration Factor | FP | — | RO |
| 7757 | 1E4D | FR2: HFlow: Flowing Differential Pressure | FP | "H2O@68F | RO |
| 7758 | 1E4E | FR2: HFlow: Flowing Temperature | FP | °F | RO |
| 7759 | 1E4F | FR2: HFlow: Flowing Upstream Pressure | FP | psia | RO |
| 7760 | 1E50 | FR2: HFlow: Flowing Square Root Of Diff Pres | FP | — | RO |
| 7761 | 1E51 | FR2: HFlow: Uncorrected Accumulation | FP | — | RO |
| 7762 | 1E52 | FR2: HFlow: Stability Index | FP | — | RO |
| 7763 | 1E53 | FR2: HFlow: Reynolds Number Pipe | FP | — | RO |
| 7764 | 1E54 | FR2: HFlow: Expansion Factor | FP | — | RO |
| 7765 | 1E55 | FR2: HFlow: Velocity Of Approach Factor | FP | — | RO |
| 7766 | 1E56 | FR2: HFlow: Flow Extension | FP | — | RO |
| 7767 | 1E57 | FR2: HFlow: Gas Apparent Mass Flow Rate Flow Weighted | FP | lbm/day | RO |
| 7768 | 1E58 | FR2: HFlow: Gas Densimetric Froude Number | FP | — | RO |
| 7769 | 1E59 | FR2: HFlow: Liquid Apparent Mass Flow Rate Flow Weighted | FP | lbm/day | RO |
| 7770 | 1E5A | FR2: HFlow: Liquid Apparent Volume Flow Rate Flow Weighted | FP | bbbl/day | RO |
| 7771 | 1E5B | FR2: HFlow: Liquid Densimetric Froude Number | FP | — | RO |
| 7772 | 1E5C | FR2: HFlow: Lockhart Martinelli Parameter | FP | — | RO |
| 7773 | 1E5D | FR2: HFlow: Chisholm Coefficient | FP | — | RO |
| 7774 | 1E5E | FR2: HFlow: Multiphase Correction Factor | FP | — | RO |
| 7775 | 1E5F | FR2: HFlow: Gas Mass Flow Rate Flow Weighted | FP | lbm/day | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|----------|--------|
| 7776 | 1E60 | FR2: HFlow: Gas Volume Flow Rate Flow Weighted | FP | MCF/day | RO |
| 7777 | 1E61 | FR2: HFlow: Gas Energy Flow Rate Flow Weighted | FP | Btu/day | RO |
| 7778 | 1E62 | FR2: HFlow: Liquid Oil Mass Flow Rate Flow Weighted | FP | lbm/day | RO |
| 7779 | 1E63 | FR2: HFlow: Liquid Oil Volume Flow Rate Flow Weighted | FP | bbbl/day | RO |
| 7780 | 1E64 | FR2: HFlow: Liquid Oil Net Volume Flow Rate Flow Weighted | FP | bbbl/day | RO |
| 7781 | 1E65 | FR2: HFlow: Liquid Water Mass Flow Rate Flow Weighted | FP | lbm/day | RO |
| 7782 | 1E66 | FR2: HFlow: Liquid Water Volume Flow Rate Flow Weighted | FP | bbbl/day | RO |
| 7783 | 1E67 | FR2: HFluid: Gas Specific Gravity | FP | — | RO |
| 7784 | 1E68 | FR2: HFluid: Liquid Oil Base API Gravity | FP | — | RO |
| 7785 | 1E69 | FR2: HFluid: Liquid Oil Base Specific Gravity | FP | — | RO |
| 7786 | 1E6A | FR2: HFluid: Liquid Oil Flowing API Gravity | FP | — | RO |
| 7787 | 1E6B | FR2: HFluid: Liquid Oil Flowing Specific Gravity | FP | — | RO |
| 7788 | 1E6C | FR2: HFluid: Liquid Composite Flowing API Gravity | FP | — | RO |
| 7789 | 1E6D | FR2: HFluid: Liquid Composite Flowing Specific Gravity | FP | — | RO |
| 7790 | 1E6E | FR2: HFluid: Speed of Sound | FP | m/s | RO |

Gas Stream 1 Holding

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-------|--------|
| 7801 | 1E79 | Gas Stream 1: Holding Mixture: Methane | FP | — | RO |
| 7802 | 1E7A | Gas Stream 1: Holding Mixture: Nitrogen | FP | — | RO |
| 7803 | 1E7B | Gas Stream 1: Holding Mixture: Carbon Dioxide | FP | — | RO |
| 7804 | 1E7C | Gas Stream 1: Holding Mixture: Ethane | FP | — | RO |
| 7805 | 1E7D | Gas Stream 1: Holding Mixture: Propane | FP | — | RO |
| 7806 | 1E7E | Gas Stream 1: Holding Mixture: Water | FP | — | RO |
| 7807 | 1E7F | Gas Stream 1: Holding Mixture: Hydrogen Sulfide | FP | — | RO |
| 7808 | 1E80 | Gas Stream 1: Holding Mixture: Hydrogen | FP | — | RO |
| 7809 | 1E81 | Gas Stream 1: Holding Mixture: Carbon Monoxide | FP | — | RO |
| 7810 | 1E82 | Gas Stream 1: Holding Mixture: Oxygen | FP | — | RO |
| 7811 | 1E83 | Gas Stream 1: Holding Mixture: Isobutane | FP | — | RO |
| 7812 | 1E84 | Gas Stream 1: Holding Mixture: Butane | FP | — | RO |
| 7813 | 1E85 | Gas Stream 1: Holding Mixture: Isopentane | FP | — | RO |
| 7814 | 1E86 | Gas Stream 1: Holding Mixture: NPentane | FP | — | RO |
| 7815 | 1E87 | Gas Stream 1: Holding Mixture: Hexane | FP | — | RO |
| 7816 | 1E88 | Gas Stream 1: Holding Mixture: Heptane | FP | — | RO |
| 7817 | 1E89 | Gas Stream 1: Holding Mixture: Octane | FP | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 7818 | 1E8A | Gas Stream 1: Holding Mixture: Nonane | FP | — | RO |
| 7819 | 1E8B | Gas Stream 1: Holding Mixture: Decane | FP | — | RO |
| 7820 | 1E8C | Gas Stream 1: Holding Mixture: Helium | FP | — | RO |
| 7821 | 1E8D | Gas Stream 1: Holding Mixture: Argon | FP | — | RO |
| 7822 | 1E8E | Gas Stream 1: Holding Mixture: Neopentane | FP | — | RO |
| 7823 | 1E8F | Gas Stream 1: Holding Mixture: Isohexane | FP | — | RO |
| 7824 | 1E90 | Gas Stream 1: Holding Mixture: Methylpentane 3 | FP | — | RO |
| 7825 | 1E91 | Gas Stream 1: Holding Mixture: Neohexane | FP | — | RO |
| 7826 | 1E92 | Gas Stream 1: Holding Mixture: Biisopropyl | FP | — | RO |
| 7827 | 1E93 | Gas Stream 1: Holding Mixture: Ethylene | FP | — | RO |
| 7828 | 1E94 | Gas Stream 1: Holding Mixture: Propylene | FP | — | RO |
| 7829 | 1E95 | Gas Stream 1: Holding Mixture: Methyl Alcohol | FP | — | RO |

Gas Stream 2 Holding

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-------|--------|
| 7901 | 1EDD | Gas Stream 2: Holding Mixture: Methane | FP | — | RO |
| 7902 | 1EDE | Gas Stream 2: Holding Mixture: Nitrogen | FP | — | RO |
| 7903 | 1EDF | Gas Stream 2: Holding Mixture: Carbon Dioxide | FP | — | RO |
| 7904 | 1EE0 | Gas Stream 2: Holding Mixture: Ethane | FP | — | RO |
| 7905 | 1EE1 | Gas Stream 2: Holding Mixture: Propane | FP | — | RO |
| 7906 | 1EE2 | Gas Stream 2: Holding Mixture: Water | FP | — | RO |
| 7907 | 1EE3 | Gas Stream 2: Holding Mixture: Hydrogen Sulfide | FP | — | RO |
| 7908 | 1EE4 | Gas Stream 2: Holding Mixture: Hydrogen | FP | — | RO |
| 7909 | 1EE5 | Gas Stream 2: Holding Mixture: Carbon Monoxide | FP | — | RO |
| 7910 | 1EE6 | Gas Stream 2: Holding Mixture: Oxygen | FP | — | RO |
| 7911 | 1EE7 | Gas Stream 2: Holding Mixture: Isobutane | FP | — | RO |
| 7912 | 1EE8 | Gas Stream 2: Holding Mixture: Butane | FP | — | RO |
| 7913 | 1EE9 | Gas Stream 2: Holding Mixture: Isopentane | FP | — | RO |
| 7914 | 1EEA | Gas Stream 2: Holding Mixture: NPentane | FP | — | RO |
| 7915 | 1EEB | Gas Stream 2: Holding Mixture: Hexane | FP | — | RO |
| 7916 | 1EEC | Gas Stream 2: Holding Mixture: Heptane | FP | — | RO |
| 7917 | 1EED | Gas Stream 2: Holding Mixture: Octane | FP | — | RO |
| 7918 | 1EEE | Gas Stream 2: Holding Mixture: Nonane | FP | — | RO |
| 7919 | 1EEF | Gas Stream 2: Holding Mixture: Decane | FP | — | RO |
| 7920 | 1EF0 | Gas Stream 2: Holding Mixture: Helium | FP | — | RO |
| 7921 | 1EF1 | Gas Stream 2: Holding Mixture: Argon | FP | — | RO |
| 7922 | 1EF2 | Gas Stream 2: Holding Mixture: Neopentane | FP | — | RO |
| 7923 | 1EF3 | Gas Stream 2: Holding Mixture: Isohexane | FP | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 7924 | 1EF4 | Gas Stream 2: Holding Mixture: Methylpentane 3 | FP | — | RO |
| 7925 | 1EF5 | Gas Stream 2: Holding Mixture: Neohexane | FP | — | RO |
| 7926 | 1EF6 | Gas Stream 2: Holding Mixture: Biisopropyl | FP | — | RO |
| 7927 | 1EF7 | Gas Stream 2: Holding Mixture: Ethylene | FP | — | RO |
| 7928 | 1EF8 | Gas Stream 2: Holding Mixture: Propylene | FP | — | RO |
| 7929 | 1EF9 | Gas Stream 2: Holding Mixture: Methyl Alcohol | FP | — | RO |

System Measurements

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------|--------|
| 8001 | 1F41 | Current Time: Date | FP | MMDDYY | RO |
| 8002 | 1F42 | Current Time: Time | FP | HHMMSS | RO |
| 8003 | 1F43 | System: MVT Static Pressure Range | FP | psig | RO |
| 8004 | 1F44 | System: MVT Differential Pressure Range | FP | "H2O@68°F | RO |
| 8005 | 1F45 | System Measurements: System Voltage | FP | V | RO |
| 8006 | 1F46 | System Measurements: System Current | FP | mA | RO |
| 8007 | 1F47 | System Measurements: External Voltage | FP | V | RO |
| 8008 | 1F48 | System Measurements: Battery 1 Voltage | FP | V | RO |
| 8009 | 1F49 | System Measurements: Battery 2 Voltage | FP | V | RO |
| 8010 | 1F4A | System Measurements: Transmitter Voltage | FP | V | RO |
| 8011 | 1F4B | System Measurements: Transmitter Current | FP | mA | RO |
| 8012 | 1F4C | System Measurements: CPU Voltage | FP | V | RO |
| 8013 | 1F4D | System Measurements: Analog Voltage | FP | V | RO |
| 8014 | 1F4E | System Measurements: Clock Battery Voltage | FP | V | RO |

Scanner Logic HMI User Fields

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------|-----------|-------|--------|
| 8051 | 1F73 | Holding: R 1 | FP | | RW |
| 8052 | 1F74 | Holding: R 2 | FP | | RW |
| 8053 | 1F75 | Holding: R 3 | FP | | RW |
| 8054 | 1F76 | Holding: R 4 | FP | | RW |
| 8055 | 1F77 | Holding: R 5 | FP | | RW |
| 8056 | 1F78 | Holding: R 6 | FP | | RW |
| 8057 | 1F78 | Holding: R 7 | FP | | RW |
| 8058 | 1F7A | Holding: R 8 | FP | | RW |
| 8059 | 1F7B | Holding: R 9 | FP | | RW |
| 8060 | 1F7C | Holding: R 10 | FP | | RW |
| 8061 | 1F7D | Holding: R 11 | FP | | RW |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------|-----------|-------|--------|
| 8062 | 1F7E | Holding: R 12 | FP | | RW |
| 8063 | 1F7F | Holding: R 13 | FP | | RW |
| 8064 | 1F80 | Holding: R 14 | FP | | RW |
| 8065 | 1F81 | Holding: R 15 | FP | | RW |
| 8066 | 1F82 | Holding: R 16 | FP | | RW |
| 8067 | 1F83 | Holding: R 17 | FP | | RW |
| 8068 | 1F84 | Holding: R 18 | FP | | RW |
| 8069 | 1F85 | Holding: R 19 | FP | | RW |
| 8070 | 1F86 | Holding: R 20 | FP | | RW |
| 8071 | 1F87 | Holding: R 21 | FP | | RW |
| 8072 | 1F88 | Holding: R 22 | FP | | RW |
| 8073 | 1F89 | Holding: R 23 | FP | | RW |
| 8074 | 1F90 | Holding: R 24 | FP | | RW |
| 8075 | 1F91 | Holding: R 25 | FP | | RW |
| 8076 | 1F92 | Holding: R 26 | FP | | RW |
| 8077 | 1F8D | Holding: R 27 | FP | | RW |
| 8078 | 1F8E | Holding: R 28 | FP | | RW |
| 8079 | 1F8F | Holding: R 29 | FP | | RW |
| 8080 | 1F90 | Holding: R 30 | FP | | RW |
| 8081 | 1F91 | Holding: R 31 | FP | | RW |
| 8082 | 1F92 | Holding: R 32 | FP | | RW |
| 8083 | 1F93 | Holding: R 33 | FP | | RW |
| 8084 | 1F94 | Holding: R 34 | FP | | RW |
| 8085 | 1F95 | Holding: R 35 | FP | | RW |
| 8086 | 1F96 | Holding: R 36 | FP | | RW |
| 8087 | 1F97 | Holding: R 37 | FP | | RW |
| 8088 | 1F98 | Holding: R 38 | FP | | RW |
| 8089 | 1F99 | Holding: R 39 | FP | | RW |
| 8090 | 1F9A | Holding: R 40 | FP | | RW |
| 8091 | 1F9B | Holding: R 41 | FP | | RW |
| 8092 | 1F9C | Holding: R 42 | FP | | RW |
| 8093 | 1F9D | Holding: R 43 | FP | | RW |
| 8094 | 1F9E | Holding: R 44 | FP | | RW |
| 8095 | 1F9F | Holding: R 45 | FP | | RW |
| 8096 | 1FA0 | Holding: R 46 | FP | | RW |
| 8097 | 1FA1 | Holding: R 47 | FP | | RW |
| 8098 | 1FA2 | Holding: R 48 | FP | | RW |
| 8099 | 1FA3 | Holding: R 49 | FP | | RW |
| 8100 | 1FA4 | Holding: R 50 | FP | | RW |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------|-----------|-------|--------|
| 8101 | 1FA5 | Holding: R 51 | FP | | RW |
| 8102 | 1FA6 | Holding: R 52 | FP | | RW |
| 8103 | 1FA7 | Holding: R 53 | FP | | RW |
| 8104 | 1FA8 | Holding: R 54 | FP | | RW |
| 8105 | 1FA9 | Holding: R 55 | FP | | RW |
| 8106 | 1FAA | Holding: R 56 | FP | | RW |
| 8107 | 1FAB | Holding: R 57 | FP | | RW |
| 8108 | 1FAC | Holding: R 58 | FP | | RW |
| 8109 | 1FAD | Holding: R 59 | FP | | RW |
| 8110 | 1FAE | Holding: R 60 | FP | | RW |
| 8111 | 1FAF | Holding: R 61 | FP | | RW |
| 8112 | 1FB0 | Holding: R 62 | FP | | RW |
| 8113 | 1FB1 | Holding: R 63 | FP | | RW |
| 8114 | 1FB2 | Holding: R 64 | FP | | RW |

Scanner Logic HMI PID Fields

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|-------------------------------------|-----------|-------|--------|
| 8126 | 1FBE | Holding: Reserved | FP | | RW |
| 8127 | 1FBF | Holding: AC1 Output | FP | | RW |
| 8128 | 1FC0 | Holding: AC1 Error | FP | | RW |
| 8129 | 1FC1 | Holding: AC1 Is Auto Mode | FP | | RW |
| 8130 | 1FC2 | Holding: AC1 Range High | FP | | RW |
| 8131 | 1FC3 | Holding: AC1 Range Low | FP | | RW |
| 8132 | 1FC4 | Holding: AC1 Setpoint | FP | | RW |
| 8133 | 1FC5 | Holding: AC1 Setpoint Tolerance | FP | | RW |
| 8134 | 1FC6 | Holding: AC1 Setpoint Dead Band | FP | | RW |
| 8135 | 1FC7 | Holding: AC1 Override Value | FP | | RW |
| 8136 | 1FC8 | Holding: AC1 Fail Value | FP | | RW |
| 8137 | 1FC9 | Holding: AC1 Kp | FP | | RW |
| 8138 | 1FCA | Holding: AC1 Ki | FP | | RW |
| 8139 | 1FCB | Holding: AC1 Kd | FP | | RW |
| 8140 | 1FCC | Holding: AC1 Is Constraint Override | FP | | RW |
| 8141 | 1FCD | Holding: AC1 Constraint Range High | FP | | RW |
| 8142 | 1FCE | Holding: AC1 Constraint Range Low | FP | | RW |
| 8143 | 1FCF | Holding: AC1 Constraint Setpoint | FP | | RW |
| 8144 | 1FD0 | Holding: AC1 Constraint Dead Band | FP | | RW |
| 8145 | 1FD1 | Holding: AC1 Constraint Kp | FP | | RW |
| 8146 | 1FD2 | Holding: AC1 Constraint Ki | FP | | RW |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|-------------------------------------|-----------|-------|--------|
| 8147 | 1FD3 | Holding: AC1 Constraint Kd | FP | | RW |
| 8148 | 1FD4 | Holding: AC1 Output | FP | | RW |
| 8149 | 1FD5 | Holding: AC1 Error | FP | | RW |
| 8150 | 1FD6 | Holding: AC1 Is Auto Mode | FP | | RW |
| 8151 | 1FD7 | Holding: AC1 Range High | FP | | RW |
| 8152 | 1FD8 | Holding: AC1 Range Low | FP | | RW |
| 8153 | 1FD9 | Holding: AC1 Setpoint | FP | | RW |
| 8154 | 1FDA | Holding: AC1 Setpoint Tolerance | FP | | RW |
| 8155 | 1FDB | Holding: AC1 Setpoint Dead Band | FP | | RW |
| 8156 | 1FDC | Holding: AC1 Override Value | FP | | RW |
| 8157 | 1FDD | Holding: AC1 Fail Value | FP | | RW |
| 8158 | 1FDE | Holding: AC1 Kp | FP | | RW |
| 8159 | 1FDF | Holding: AC1 Ki | FP | | RW |
| 8160 | 1FE0 | Holding: AC1 Kd | FP | | RW |
| 8161 | 1FE1 | Holding: AC1 Is Constraint Override | FP | | RW |
| 8162 | 1FE2 | Holding: AC1 Constraint Range High | FP | | RW |
| 8163 | 1FE3 | Holding: AC1 Constraint Range Low | FP | | RW |
| 8164 | 1FE4 | Holding: AC1 Constraint Setpoint | FP | | RW |
| 8165 | 1FE5 | Holding: AC1 Constraint Dead Band | FP | | RW |
| 8166 | 1FE6 | Holding: AC1 Constraint Kp | FP | | RW |
| 8167 | 1FE7 | Holding: AC1 Constraint Ki | FP | | RW |
| 8168 | 1FE8 | Holding: AC1 Constraint Kd | FP | | RW |
| 8169 | 1FE9 | Holding: AC1 Output | FP | | RW |
| 8170 | 1FEA | Holding: AC1 Error | FP | | RW |
| 8171 | 1FEB | Holding: AC1 Is Auto Mode | FP | | RW |
| 8172 | 1FEC | Holding: AC1 Range High | FP | | RW |
| 8173 | 1FED | Holding: AC1 Range Low | FP | | RW |
| 8174 | 1FEE | Holding: AC1 Setpoint | FP | | RW |
| 8175 | 1FEF | Holding: AC1 Setpoint Tolerance | FP | | RW |
| 8176 | 1FF0 | Holding: AC1 Setpoint Dead Band | FP | | RW |
| 8177 | 1FF1 | Holding: AC1 Override Value | FP | | RW |
| 8178 | 1FF2 | Holding: AC1 Fail Value | FP | | RW |
| 8179 | 1FF3 | Holding: AC1 Kp | FP | | RW |
| 8180 | 1FF4 | Holding: AC1 Ki | FP | | RW |
| 8181 | 1FF5 | Holding: AC1 Kd | FP | | RW |
| 8182 | 1FF6 | Holding: AC1 Is Constraint Override | FP | | RW |
| 8183 | 1FF7 | Holding: AC1 Constraint Range High | FP | | RW |
| 8184 | 1FF8 | Holding: AC1 Constraint Range Low | FP | | RW |
| 8185 | 1FF9 | Holding: AC1 Constraint Setpoint | FP | | RW |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|-----------------------------------|-----------|-------|--------|
| 8186 | 1FFA | Holding: AC1 Constraint Dead Band | FP | | RW |
| 8187 | 1FFB | Holding: AC1 Constraint Kp | FP | | RW |
| 8188 | 1FFC | Holding: AC1 Constraint Ki | FP | | RW |
| 8189 | 1FFD | Holding: AC1 Constraint Kd | FP | | RW |

Input/Output Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|---------------------------|--------|
| 8201 | 2009 | Differential Pressure: Configuration: Override Value | FP | "H2O@68F | RW |
| 8202 | 200A | Static Pressure: Configuration: Override Value | FP | psig | RW |
| 8203 | 200B | RTD1: Configuration: Override Value | FP | °F | RW |
| 8204 | 200C | RTD2: Configuration: Override Value | FP | °F | RW |
| 8205 | 200D | Analog Input 1: Configuration: Override Value | FP | — | RW |
| 8206 | 200E | Analog Input 2: Configuration: Override Value | FP | — | RW |
| 8207 | 200F | Analog Input 3: Configuration: Override Value | FP | — | RW |
| 8208 | 2010 | Analog Input 4: Configuration: Override Value | FP | — | RW |
| 8209 | 2011 | Pulse Input 1: Configuration: Override Value | FP | bbl | RW |
| 8210 | 2012 | Pulse Input 2: Configuration: Override Value | FP | bbl | RW |
| 8211 | 2013 | Pulse Input 3: Configuration: Override Value | FP | bbl | RW |
| 8212 | 2014 | Pulse Input 1: Calibration: Nominal Factor | FP | pulses/gal | RW |
| 8213 | 2015 | Pulse Input 2: Calibration: Nominal Factor | FP | pulses/gal | RW |
| 8214 | 2016 | Pulse Input 3: Calibration: Nominal Factor | FP | pulses/gal | RW |
| 8215 | 2017 | Analog Output 1 PID: Configuration: Static Pressure Value | FP | varies with configuration | RW |
| 8216 | 2018 | Analog Output 1 PID: Configuration: Override Value | FP | varies with configuration | RW |
| 8217 | 2019 | Analog Output 1 PID: Configuration: Kp | FP | — | RW |
| 8218 | 201A | Analog Output 1 PID: Configuration: Ki | FP | — | RW |
| 8219 | 201B | Analog Output 1 PID: Configuration: Kd | FP | — | RW |
| 8220 | 201C | Analog Output 1 Pressure Override: Configuration: Kp | FP | — | RW |
| 8221 | 201D | Analog Output 1 Pressure Override: Configuration: Ki | FP | — | RW |
| 8222 | 201E | Analog Output 1 Pressure Override: Configuration: Kd | FP | — | RW |
| 8223 | 201F | Analog Output 2 PID: Configuration: Static Pressure Value | FP | varies with configuration | RW |
| 8224 | 2020 | Analog Output 2 PID: Configuration: Override Value | FP | varies with configuration | RW |
| 8225 | 2021 | Analog Output 2 PID: Configuration: Kp | FP | — | RW |
| 8226 | 2022 | Analog Output 2 PID: Configuration: Ki | FP | — | RW |
| 8227 | 2023 | Analog Output 2 PID: Configuration: Kd | FP | — | RW |
| 8228 | 2024 | Analog Output 2 Pressure Override: Configuration: Kp | FP | — | RW |
| 8229 | 2025 | Analog Output 2 Pressure Override: Configuration: Ki | FP | — | RW |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|------------|--------|
| 8230 | 2026 | Analog Output 2 Pressure Override: Configuration: Kd | FP | — | RW |
| *8231 | 2027 | Pulse Input 1: Calibration: Linear Meter Factor Out Fact 1 | FP | pulses/gal | RW |
| *8232 | 2028 | Pulse Input 2: Calibration: Linear Meter Factor Out Fact 1 | FP | pulses/gal | RW |
| *8233 | 2029 | Pulse Input 3: Calibration: Linear Meter Factor Out Fact 1 | FP | pulses/gal | RW |

* Not support under Scanner 3100 Measurement Canada Firmware

Flow Run 1 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-------|--------|
| 8301 | 206D | Flow Run 1: CFluid: Atmospheric Pressure | FP | psia | RW |
| 8302 | 206E | Flow Run 1: CFluid: Gross Carbon Dioxide | FP | — | RW |
| 8303 | 206F | Flow Run 1: CFluid: Gross Nitrogen | FP | — | RW |
| 8304 | 2070 | Flow Run 1: CFluid: Gross Carbon Monoxide | FP | — | RW |
| 8305 | 2071 | Flow Run 1: CFluid: Gross Hydrogen | FP | — | RW |
| 8306 | 2072 | Flow Run 1: CFluid: Gross Specific Gravity | FP | — | RW |
| 8307 | 2073 | Flow Run 1: CFluid: Liquid Oil Base API Gravity | FP | — | RW |
| 8308 | 2074 | Flow Run 1: CFluid: Liquid Shrinkage Factor | FP | — | RW |
| 8309 | 2075 | Flow Run 1: CFluid: Liquid BSW | FP | % | RW |
| 8310 | 2076 | Flow Run 1: CFlow: Reference Meter Tube Inside Diameter | FP | inch | RW |
| 8311 | 2077 | Flow Run 1: CFlow: Reference Meter Tube Temperature | FP | °F | RW |
| 8312 | 2078 | Flow Run 1: CFlow: Meter Tube Alpha Override | FP | 1/°F | RW |
| 8313 | 2079 | Flow Run 1: CFlow: Reference Orifice Diameter | FP | inch | RW |
| 8314 | 207A | Flow Run 1: CFlow: Reference Orifice Temperature | FP | °F | RW |
| 8315 | 207B | Flow Run 1: CFlow: Orifice Alpha Override | FP | 1/°F | RW |
| 8316 | 207C | Flow Run 1: CFlow: Reference Weep Hole Diameter | FP | inch | RW |
| 8317 | 207D | Flow Run 1: CFlow: Reference Beta Ratio Override | FP | — | RW |
| 8318 | 207E | Flow Run 1: Calibration: Nominal Factor | FP | — | RW |
| *8319 | 207F | Flow Run 1: Calibration: Linear Meter Factor Out Fact 1 | FP | | RW |

* Not support under Scanner 3100 Measurement Canada Firmware

Flow Run 2 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 8401 | 20D1 | Flow Run 2: CFluid: Atmospheric Pressure | FP | psia | RW |
| 8402 | 20D2 | Flow Run 2: CFluid: Gross Carbon Dioxide | FP | — | RW |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-------|--------|
| 8403 | 20D3 | Flow Run 2: CFluid: Gross Nitrogen | FP | — | RW |
| 8404 | 20D4 | Flow Run 2: CFluid: Gross Carbon Monoxide | FP | — | RW |
| 8405 | 20D5 | Flow Run 2: CFluid: Gross Hydrogen | FP | — | RW |
| 8406 | 20D6 | Flow Run 2: CFluid: Gross Specific Gravity | FP | — | RW |
| 8407 | 20D7 | Flow Run 2: CFluid: Liquid Oil Base API Gravity | FP | — | RW |
| 8408 | 20D8 | Flow Run 2: CFluid: Liquid Shrinkage Factor | FP | — | RW |
| 8409 | 20D9 | Flow Run 2: CFluid: Liquid BSW | FP | % | RW |
| 8410 | 20DA | Flow Run 2: CFlow: Reference Meter Tube Inside Diameter | FP | inch | RW |
| 8411 | 20DB | Flow Run 2: CFlow: Reference Meter Tube Temperature | FP | °F | RW |
| 8412 | 20DC | Flow Run 2: CFlow: Meter Tube Alpha Override | FP | 1/°F | RW |
| 8413 | 20DD | Flow Run 2: CFlow: Reference Orifice Diameter | FP | inch | RW |
| 8414 | 20DE | Flow Run 2: CFlow: Reference Orifice Temperature | FP | °F | RW |
| 8415 | 20DF | Flow Run 2: CFlow: Orifice Alpha Override | FP | 1/°F | RW |
| 8416 | 20E0 | Flow Run 2: CFlow: Reference Weep Hole Diameter | FP | inch | RW |
| 8417 | 20E1 | Flow Run 2: CFlow: Reference Beta Ratio Override | FP | — | RW |
| 8418 | 20E2 | Flow Run 2: Calibration: Nominal Factor | FP | — | RW |
| *8419 | 20E3 | Flow Run 2: Calibration: Linear Meter Factor Out Fact 1 | FP | — | RW |

* Not support under Scanner 3100 Measurement Canada Firmware

Gas Stream 1 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 8501 | 2135 | Gas Stream 1: Config Mixture: Methane | FP | — | RW |
| 8502 | 2136 | Gas Stream 1: Config Mixture: Nitrogen | FP | — | RW |
| 8503 | 2137 | Gas Stream 1: Config Mixture: Carbon Dioxide | FP | — | RW |
| 8504 | 2138 | Gas Stream 1: Config Mixture: Ethane | FP | — | RW |
| 8505 | 2139 | Gas Stream 1: Config Mixture: Propane | FP | — | RW |
| 8506 | 213A | Gas Stream 1: Config Mixture: Water | FP | — | RW |
| 8507 | 213B | Gas Stream 1: Config Mixture: Hydrogen Sulfide | FP | — | RW |
| 8508 | 213C | Gas Stream 1: Config Mixture: Hydrogen | FP | — | RW |
| 8509 | 213D | Gas Stream 1: Config Mixture: Carbon Monoxide | FP | — | RW |
| 8510 | 213E | Gas Stream 1: Config Mixture: Oxygen | FP | — | RW |
| 8511 | 213F | Gas Stream 1: Config Mixture: Isobutane | FP | — | RW |
| 8512 | 2140 | Gas Stream 1: Config Mixture: Butane | FP | — | RW |
| 8513 | 2141 | Gas Stream 1: Config Mixture: Isopentane | FP | — | RW |
| 8514 | 2142 | Gas Stream 1: Config Mixture: NPentane | FP | — | RW |
| 8515 | 2143 | Gas Stream 1: Config Mixture: Hexane | FP | — | RW |
| 8516 | 2144 | Gas Stream 1: Config Mixture: Heptane | FP | — | RW |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-------|--------|
| 8517 | 2145 | Gas Stream 1: Config Mixture: Octane | FP | — | RW |
| 8518 | 2146 | Gas Stream 1: Config Mixture: Nonane | FP | — | RW |
| 8519 | 2147 | Gas Stream 1: Config Mixture: Decane | FP | — | RW |
| 8520 | 2148 | Gas Stream 1: Config Mixture: Helium | FP | — | RW |
| 8521 | 2149 | Gas Stream 1: Config Mixture: Argon | FP | — | RW |
| 8522 | 214A | Gas Stream 1: Config Mixture: Neopentane | FP | — | RW |
| 8523 | 214B | Gas Stream 1: Config Mixture: Isohexane | FP | — | RW |
| 8524 | 214C | Gas Stream 1: Config Mixture: Methylpentane 3 | FP | — | RW |
| 8525 | 214D | Gas Stream 1: Config Mixture: Neohexane | FP | — | RW |
| 8526 | 214E | Gas Stream 1: Config Mixture: Biisopropyl | FP | — | RW |
| 8527 | 214F | Gas Stream 1: Config Mixture: Ethylene | FP | — | RW |
| 8528 | 2150 | Gas Stream 1: Config Mixture: Propylene | FP | — | RW |
| 8529 | 2151 | Gas Stream 1: Config Mixture: Methyl Alcohol | FP | — | RW |

Gas Stream 2 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 8601 | 2199 | Gas Stream 2: Config Mixture: Methane | FP | — | RW |
| 8602 | 219A | Gas Stream 2: Config Mixture: Nitrogen | FP | — | RW |
| 8603 | 219B | Gas Stream 2: Config Mixture: Carbon Dioxide | FP | — | RW |
| 8604 | 219C | Gas Stream 2: Config Mixture: Ethane | FP | — | RW |
| 8605 | 219D | Gas Stream 2: Config Mixture: Propane | FP | — | RW |
| 8606 | 219E | Gas Stream 2: Config Mixture: Water | FP | — | RW |
| 8607 | 219F | Gas Stream 2: Config Mixture: Hydrogen Sulfide | FP | — | RW |
| 8608 | 21A0 | Gas Stream 2: Config Mixture: Hydrogen | FP | — | RW |
| 8609 | 21A1 | Gas Stream 2: Config Mixture: Carbon Monoxide | FP | — | RW |
| 8610 | 21A2 | Gas Stream 2: Config Mixture: Oxygen | FP | — | RW |
| 8611 | 21A3 | Gas Stream 2: Config Mixture: Isobutane | FP | — | RW |
| 8612 | 21A4 | Gas Stream 2: Config Mixture: Butane | FP | — | RW |
| 8613 | 21A5 | Gas Stream 2: Config Mixture: Isopentane | FP | — | RW |
| 8614 | 21A6 | Gas Stream 2: Config Mixture: NPentane | FP | — | RW |
| 8615 | 21A7 | Gas Stream 2: Config Mixture: Hexane | FP | — | RW |
| 8616 | 21A8 | Gas Stream 2: Config Mixture: Heptane | FP | — | RW |
| 8617 | 21A9 | Gas Stream 2: Config Mixture: Octane | FP | — | RW |
| 8618 | 21AA | Gas Stream 2: Config Mixture: Nonane | FP | — | RW |
| 8619 | 21AB | Gas Stream 2: Config Mixture: Decane | FP | — | RW |
| 8620 | 21AC | Gas Stream 2: Config Mixture: Helium | FP | — | RW |
| 8621 | 21AD | Gas Stream 2: Config Mixture: Argon | FP | — | RW |
| 8622 | 21AE | Gas Stream 2: Config Mixture: Neopentane | FP | — | RW |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-------|--------|
| 8623 | 21AF | Gas Stream 2: Config Mixture: Isohexane | FP | — | RW |
| 8624 | 21B0 | Gas Stream 2: Config Mixture: Methylpentane 3 | FP | — | RW |
| 8625 | 21B1 | Gas Stream 2: Config Mixture: Neohexane | FP | — | RW |
| 8626 | 21B2 | Gas Stream 2: Config Mixture: Biisopropyl | FP | — | RW |
| 8627 | 21B3 | Gas Stream 2: Config Mixture: Ethylene | FP | — | RW |
| 8628 | 21B4 | Gas Stream 2: Config Mixture: Propylene | FP | — | RW |
| 8629 | 21B5 | Gas Stream 2: Config Mixture: Methyl Alcohol | FP | — | RW |

Slave 1 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------|--------|
| 9001 | 2329 | Slave Device 1: Holding: Update Date | FP | MMDDYY | RO |
| 9002 | 232A | Slave Device 1: Holding: Update Time | FP | HHMMSS | RO |
| 9003 | 232B | Slave Device 1: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9004 | 232C | Slave Device 1: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9005 | 232D | Slave Device 1: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9006 | 232E | Slave Device 1: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9007 | 232F | Slave Device 1: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9008 | 2330 | Slave Device 1: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9009 | 2331 | Slave Device 1: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9010 | 2332 | Slave Device 1: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9011 | 2333 | Slave Device 1: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9012 | 2334 | Slave Device 1: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9013 | 2335 | Slave Device 1: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9014 | 2336 | Slave Device 1: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9015 | 2337 | Slave Device 1: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9016 | 2338 | Slave Device 1: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9017 | 2339 | Slave Device 1: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 2 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------|--------|
| 9026 | 2342 | Slave Device 2: Holding: Update Date | FP | MMDDYY | RO |
| 9027 | 2343 | Slave Device 2: Holding: Update Time | FP | HHMMSS | RO |
| 9028 | 2344 | Slave Device 2: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9029 | 2345 | Slave Device 2: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9030 | 2346 | Slave Device 2: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9031 | 2347 | Slave Device 2: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9032 | 2348 | Slave Device 2: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9033 | 2349 | Slave Device 2: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9034 | 234A | Slave Device 2: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9035 | 234B | Slave Device 2: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9036 | 234C | Slave Device 2: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9037 | 234D | Slave Device 2: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9038 | 234E | Slave Device 2: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9039 | 234F | Slave Device 2: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9040 | 2350 | Slave Device 2: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9041 | 2351 | Slave Device 2: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9042 | 2352 | Slave Device 2: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 3 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|---------|--------|
| 9051 | 235B | Slave Device 3: Holding: Update Date | FP | MMDDYY | RO |
| 9052 | 235C | Slave Device 3: Holding: Update Time | FP | HHMMSS | RO |
| 9053 | 235D | Slave Device 3: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9054 | 235E | Slave Device 3: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9055 | 235F | Slave Device 3: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9056 | 2360 | Slave Device 3: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9057 | 2361 | Slave Device 3: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9058 | 2362 | Slave Device 3: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------|--------|
| 9059 | 2363 | Slave Device 3: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9060 | 2364 | Slave Device 3: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9061 | 2365 | Slave Device 3: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9062 | 2366 | Slave Device 3: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9063 | 2367 | Slave Device 3: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9064 | 2368 | Slave Device 3: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9065 | 2369 | Slave Device 3: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9066 | 236A | Slave Device 3: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9067 | 236B | Slave Device 3: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 4 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------|--------|
| 9076 | 2374 | Slave Device 4: Holding: Update Date | FP | MMDDYY | RO |
| 9077 | 2375 | Slave Device 4: Holding: Update Time | FP | HHMMSS | RO |
| 9078 | 2376 | Slave Device 4: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9079 | 2377 | Slave Device 4: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9080 | 2378 | Slave Device 4: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9081 | 2379 | Slave Device 4: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9082 | 237A | Slave Device 4: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9083 | 237B | Slave Device 4: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9084 | 237C | Slave Device 4: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9085 | 237D | Slave Device 4: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9086 | 237E | Slave Device 4: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9087 | 237F | Slave Device 4: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9088 | 2380 | Slave Device 4: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9089 | 2381 | Slave Device 4: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9090 | 2382 | Slave Device 4: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9091 | 2383 | Slave Device 4: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9092 | 2384 | Slave Device 4: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 5 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------|--------|
| 9101 | 238D | Slave Device 5: Holding: Update Date | FP | MMDDYY | RO |
| 9102 | 238E | Slave Device 5: Holding: Update Time | FP | HHMMSS | RO |
| 9103 | 238F | Slave Device 5: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9104 | 2390 | Slave Device 5: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9105 | 2391 | Slave Device 5: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9106 | 2392 | Slave Device 5: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9107 | 2393 | Slave Device 5: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9108 | 2394 | Slave Device 5: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9109 | 2395 | Slave Device 5: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9110 | 2396 | Slave Device 5: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9111 | 2397 | Slave Device 5: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9112 | 2398 | Slave Device 5: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9113 | 2399 | Slave Device 5: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9114 | 239A | Slave Device 5: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9115 | 239B | Slave Device 5: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9116 | 239C | Slave Device 5: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9117 | 239D | Slave Device 5: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 6 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|---------|--------|
| 9126 | 23A6 | Slave Device 6: Holding: Update Date | FP | MMDDYY | RO |
| 9127 | 23A7 | Slave Device 6: Holding: Update Time | FP | HHMMSS | RO |
| 9128 | 23A8 | Slave Device 6: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9129 | 23A9 | Slave Device 6: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9130 | 23AA | Slave Device 6: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9131 | 23AB | Slave Device 6: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9132 | 23AC | Slave Device 6: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9133 | 23AD | Slave Device 6: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------|--------|
| 9134 | 23AE | Slave Device 6: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9135 | 23AF | Slave Device 6: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9136 | 23B0 | Slave Device 6: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9137 | 23B1 | Slave Device 6: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9138 | 23B2 | Slave Device 6: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9139 | 23B3 | Slave Device 6: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9140 | 23B4 | Slave Device 6: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9141 | 23B5 | Slave Device 6: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9142 | 23B6 | Slave Device 6: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 7 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------|--------|
| 9151 | 23BF | Slave Device 7: Holding: Update Date | FP | MMDDYY | RO |
| 9152 | 23C0 | Slave Device 7: Holding: Update Time | FP | HHMMSS | RO |
| 9153 | 23C1 | Slave Device 7: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9154 | 23C2 | Slave Device 7: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9155 | 23C3 | Slave Device 7: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9156 | 23C4 | Slave Device 7: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9157 | 23C5 | Slave Device 7: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9158 | 23C6 | Slave Device 7: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9159 | 23C7 | Slave Device 7: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9160 | 23C8 | Slave Device 7: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9161 | 23C9 | Slave Device 7: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9162 | 23CA | Slave Device 7: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9163 | 23CB | Slave Device 7: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9164 | 23CC | Slave Device 7: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9165 | 23CD | Slave Device 7: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9166 | 23CE | Slave Device 7: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9167 | 23CF | Slave Device 7: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 8 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------|--------|
| 9176 | 23D8 | Slave Device 8: Holding: Update Date | FP | MMDDYY | RO |
| 9177 | 23D9 | Slave Device 8: Holding: Update Time | FP | HHMMSS | RO |
| 9178 | 23DA | Slave Device 8: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9179 | 23DB | Slave Device 8: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9180 | 23DC | Slave Device 8: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9181 | 23DD | Slave Device 8: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9182 | 23DE | Slave Device 8: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9183 | 23DF | Slave Device 8: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9184 | 23E0 | Slave Device 8: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9185 | 23E1 | Slave Device 8: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9186 | 23E2 | Slave Device 8: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9187 | 23E3 | Slave Device 8: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9188 | 23E4 | Slave Device 8: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9189 | 23E5 | Slave Device 8: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9190 | 23E6 | Slave Device 8: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9191 | 23E7 | Slave Device 8: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9192 | 23E8 | Slave Device 8: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 9 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|---------|--------|
| 9201 | 23F1 | Slave Device 9: Holding: Update Date | FP | MMDDYY | RO |
| 9202 | 23F2 | Slave Device 9: Holding: Update Time | FP | HHMMSS | RO |
| 9203 | 23F3 | Slave Device 9: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9204 | 23F4 | Slave Device 9: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9205 | 23F5 | Slave Device 9: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9206 | 23F6 | Slave Device 9: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9207 | 23F7 | Slave Device 9: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9208 | 23F8 | Slave Device 9: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9209 | 23F9 | Slave Device 9: Holding: T1 Volume Daily Total | FP | bbl | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------|--------|
| 9210 | 23FA | Slave Device 9: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9211 | 23FB | Slave Device 9: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9212 | 23FC | Slave Device 9: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9213 | 23FD | Slave Device 9: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9214 | 23FE | Slave Device 9: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9215 | 23FF | Slave Device 9: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9216 | 2400 | Slave Device 9: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9217 | 2401 | Slave Device 9: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 10 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------|--------|
| 9226 | 240A | Slave Device 10: Holding: Update Date | FP | MMDDYY | RO |
| 9227 | 240B | Slave Device 10: Holding: Update Time | FP | HHMMSS | RO |
| 9228 | 240C | Slave Device 10: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9229 | 240D | Slave Device 10: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9230 | 240E | Slave Device 10: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9231 | 240F | Slave Device 10: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9232 | 2410 | Slave Device 10: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9233 | 2411 | Slave Device 10: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9234 | 2412 | Slave Device 10: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9235 | 2413 | Slave Device 10: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9236 | 2414 | Slave Device 10: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9237 | 2415 | Slave Device 10: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9238 | 2416 | Slave Device 10: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9239 | 2417 | Slave Device 10: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9240 | 2418 | Slave Device 10: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9241 | 2419 | Slave Device 10: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9242 | 241A | Slave Device 10: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 11 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------|--------|
| 9251 | 2423 | Slave Device 11: Holding: Update Date | FP | MMDDYY | RO |
| 9252 | 2424 | Slave Device 11: Holding: Update Time | FP | HHMMSS | RO |
| 9253 | 2425 | Slave Device 11: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9254 | 2426 | Slave Device 11: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9255 | 2427 | Slave Device 11: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9256 | 2428 | Slave Device 11: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9257 | 2429 | Slave Device 11: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9258 | 242A | Slave Device 11: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9259 | 242B | Slave Device 11: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9260 | 242C | Slave Device 11: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9261 | 242D | Slave Device 11: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9262 | 242E | Slave Device 11: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9263 | 242F | Slave Device 11: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9264 | 2430 | Slave Device 11: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9265 | 2431 | Slave Device 11: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9266 | 2432 | Slave Device 11: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9267 | 2433 | Slave Device 11: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 12 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|---------|--------|
| 9276 | 243C | Slave Device 12: Holding: Update Date | FP | MMDDYY | RO |
| 9277 | 243D | Slave Device 12: Holding: Update Time | FP | HHMMSS | RO |
| 9278 | 243E | Slave Device 12: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9279 | 243F | Slave Device 12: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9280 | 2440 | Slave Device 12: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9281 | 2441 | Slave Device 12: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------|--------|
| 9282 | 2442 | Slave Device 12: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9283 | 2443 | Slave Device 12: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9284 | 2444 | Slave Device 12: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9285 | 2445 | Slave Device 12: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9286 | 2446 | Slave Device 12: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9287 | 2447 | Slave Device 12: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9288 | 2448 | Slave Device 12: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9289 | 2449 | Slave Device 12: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9290 | 244A | Slave Device 12: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9291 | 244B | Slave Device 12: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9292 | 244C | Slave Device 12: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 13 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------|--------|
| 9301 | 2455 | Slave Device 13: Holding: Update Date | FP | MMDDYY | RO |
| 9302 | 2456 | Slave Device 13: Holding: Update Time | FP | HHMMSS | RO |
| 9303 | 2457 | Slave Device 13: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9304 | 2458 | Slave Device 13: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9305 | 2459 | Slave Device 13: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9306 | 245A | Slave Device 13: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9307 | 245B | Slave Device 13: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9308 | 245C | Slave Device 13: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9309 | 245D | Slave Device 13: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9310 | 245E | Slave Device 13: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9311 | 245F | Slave Device 13: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9312 | 2460 | Slave Device 13: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9313 | 2461 | Slave Device 13: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9314 | 2462 | Slave Device 13: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 9315 | 2463 | Slave Device 13: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9316 | 2464 | Slave Device 13: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9317 | 2465 | Slave Device 13: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 14 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------|--------|
| 9326 | 246E | Slave Device 14: Holding: Update Date | FP | MMDDYY | RO |
| 9327 | 246F | Slave Device 14: Holding: Update Time | FP | HHMMSS | RO |
| 9328 | 2470 | Slave Device 14: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9329 | 2471 | Slave Device 14: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9330 | 2472 | Slave Device 14: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9331 | 2473 | Slave Device 14: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9332 | 2474 | Slave Device 14: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9333 | 2475 | Slave Device 14: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9334 | 2476 | Slave Device 14: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9335 | 2477 | Slave Device 14: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9336 | 2478 | Slave Device 14: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9337 | 2479 | Slave Device 14: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9338 | 247A | Slave Device 14: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9339 | 247B | Slave Device 14: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9340 | 247C | Slave Device 14: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9341 | 247D | Slave Device 14: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9342 | 247E | Slave Device 14: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 15 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------------|-----------|--------|--------|
| 9351 | 2487 | Slave Device 15: Holding: Update Date | FP | MMDDYY | RO |
| 9352 | 2488 | Slave Device 15: Holding: Update Time | FP | HHMMSS | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------|--------|
| 9353 | 2489 | Slave Device 15: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9354 | 248A | Slave Device 15: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9355 | 248B | Slave Device 15: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9356 | 248C | Slave Device 15: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9357 | 248D | Slave Device 15: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9358 | 248E | Slave Device 15: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9359 | 248F | Slave Device 15: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9360 | 2490 | Slave Device 15: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9361 | 2491 | Slave Device 15: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9362 | 2492 | Slave Device 15: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9363 | 2493 | Slave Device 15: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9364 | 2494 | Slave Device 15: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9365 | 2495 | Slave Device 15: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9366 | 2496 | Slave Device 15: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9367 | 2497 | Slave Device 15: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 16 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|---------|--------|
| 9376 | 24A0 | Slave Device 16: Holding: Update Date | FP | MMDDYY | RO |
| 9377 | 24A1 | Slave Device 16: Holding: Update Time | FP | HHMMSS | RO |
| 9378 | 24A2 | Slave Device 16: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9379 | 24A3 | Slave Device 16: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9380 | 24A4 | Slave Device 16: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9381 | 24A5 | Slave Device 16: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9382 | 24A6 | Slave Device 16: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9383 | 24A7 | Slave Device 16: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9384 | 24A8 | Slave Device 16: Holding: T1 Volume Daily Total | FP | bbl | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------|--------|
| 9385 | 24A9 | Slave Device 16: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9386 | 24AA | Slave Device 16: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9387 | 24AB | Slave Device 16: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9388 | 24AC | Slave Device 16: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9389 | 24AD | Slave Device 16: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9390 | 24AE | Slave Device 16: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9391 | 24AF | Slave Device 16: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9392 | 24B0 | Slave Device 16: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 17 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------|--------|
| 9401 | 24B9 | Slave Device 17: Holding: Update Date | FP | MMDDYY | RO |
| 9402 | 24BA | Slave Device 17: Holding: Update Time | FP | HHMMSS | RO |
| 9403 | 24BB | Slave Device 17: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9404 | 24BC | Slave Device 17: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9405 | 24BD | Slave Device 17: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9406 | 24BE | Slave Device 17: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9407 | 24BF | Slave Device 17: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9408 | 24C0 | Slave Device 17: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9409 | 24C1 | Slave Device 17: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9410 | 24C2 | Slave Device 17: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9411 | 24C3 | Slave Device 17: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9412 | 24C4 | Slave Device 17: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9413 | 24C5 | Slave Device 17: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9414 | 24C6 | Slave Device 17: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9415 | 24C7 | Slave Device 17: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9416 | 24C8 | Slave Device 17: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 9417 | 24C9 | Slave Device 17: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 18 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------|--------|
| 9426 | 24D2 | Slave Device 18: Holding: Update Date | FP | MMDDYY | RO |
| 9427 | 24D3 | Slave Device 18: Holding: Update Time | FP | HHMMSS | RO |
| 9428 | 24D4 | Slave Device 18: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9429 | 24D5 | Slave Device 18: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9430 | 24D6 | Slave Device 18: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9431 | 24D7 | Slave Device 18: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9432 | 24D8 | Slave Device 18: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9433 | 24D9 | Slave Device 18: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9434 | 24DA | Slave Device 18: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9435 | 24DB | Slave Device 18: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9436 | 24DC | Slave Device 18: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9437 | 24DD | Slave Device 18: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9438 | 24DE | Slave Device 18: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9439 | 24DF | Slave Device 18: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9440 | 24E0 | Slave Device 18: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9441 | 24E1 | Slave Device 18: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9442 | 24E2 | Slave Device 18: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 19 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|---------|--------|
| 9451 | 24EB | Slave Device 19: Holding: Update Date | FP | MMDDYY | RO |
| 9452 | 24EC | Slave Device 19: Holding: Update Time | FP | HHMMSS | RO |
| 9453 | 24ED | Slave Device 19: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9454 | 24EE | Slave Device 19: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------|--------|
| 9455 | 24EF | Slave Device 19: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9456 | 24F0 | Slave Device 19: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9457 | 24F1 | Slave Device 19: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9458 | 24F2 | Slave Device 19: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9459 | 24F3 | Slave Device 19: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9460 | 24F4 | Slave Device 19: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9461 | 24F5 | Slave Device 19: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9462 | 24F6 | Slave Device 19: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9463 | 24F7 | Slave Device 19: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9464 | 24F8 | Slave Device 19: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9465 | 24F9 | Slave Device 19: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9466 | 24FA | Slave Device 19: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9467 | 24FB | Slave Device 19: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 20 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|---------|--------|
| 9476 | 2504 | Slave Device 20: Holding: Update Date | FP | MMDDYY | RO |
| 9477 | 2505 | Slave Device 20: Holding: Update Time | FP | HHMMSS | RO |
| 9478 | 2506 | Slave Device 20: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9479 | 2507 | Slave Device 20: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9480 | 2508 | Slave Device 20: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9481 | 2509 | Slave Device 20: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9482 | 250A | Slave Device 20: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9483 | 250B | Slave Device 20: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9484 | 250C | Slave Device 20: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9485 | 250D | Slave Device 20: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9486 | 250E | Slave Device 20: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9487 | 250F | Slave Device 20: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------|--------|
| 9488 | 2510 | Slave Device 20: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9489 | 2511 | Slave Device 20: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9490 | 2512 | Slave Device 20: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9491 | 2513 | Slave Device 20: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9492 | 2514 | Slave Device 20: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 1 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------------------|--------|
| 9501 | 251D | Slave Device 1: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 9502 | 251E | Slave Device 1: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 9503 | 251F | Slave Device 1: Flow Run Config: Nitrogen | FP | — | RW |
| 9504 | 2520 | Slave Device 1: Flow Run Config: Specific Gravity | FP | — | RW |
| 9505 | 2521 | Slave Device 1: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 9506 | 2522 | Slave Device 1: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 9507 | 2523 | Slave Device 1: Flow Run Config: Gas Fraction | FP | — | RW |
| 9508 | 2524 | Slave Device 1: Flow Run Config: Plate Diameter | FP | inch | RW |
| 9509 | 2525 | Slave Device 1: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 9510 | 2526 | Slave Device 1: Flow Run Config: Cone Beta | FP | — | RW |
| 9511 | 2527 | Slave Device 1: Flow Run Config: Nominal Value | FP | — | RW |
| 9512 | 2528 | Slave Device 1: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 9513 | 2529 | Slave Device 1: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 2 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------------------|--------|
| 9526 | 2536 | Slave Device 2: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 9527 | 2537 | Slave Device 2: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 9528 | 2538 | Slave Device 2: Flow Run Config: Nitrogen | FP | — | RW |
| 9529 | 2539 | Slave Device 2: Flow Run Config: Specific Gravity | FP | — | RW |
| 9530 | 253A | Slave Device 2: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 9531 | 253B | Slave Device 2: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 9532 | 253C | Slave Device 2: Flow Run Config: Gas Fraction | FP | — | RW |
| 9533 | 253D | Slave Device 2: Flow Run Config: Plate Diameter | FP | inch | RW |
| 9534 | 253E | Slave Device 2: Flow Run Config: Pipe Diameter | FP | inch | RW |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|------------|--------|
| 9535 | 253F | Slave Device 2: Flow Run Config: Cone Beta | FP | — | RW |
| 9536 | 2540 | Slave Device 2: Flow Run Config: Nominal Value | FP | — | RW |
| 9537 | 2541 | Slave Device 2: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 9538 | 2542 | Slave Device 2: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 3 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------------------|--------|
| 9551 | 254F | Slave Device 3: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 9552 | 2550 | Slave Device 3: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 9553 | 2551 | Slave Device 3: Flow Run Config: Nitrogen | FP | — | RW |
| 9554 | 2552 | Slave Device 3: Flow Run Config: Specific Gravity | FP | — | RW |
| 9555 | 2553 | Slave Device 3: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 9556 | 2554 | Slave Device 3: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 9557 | 2555 | Slave Device 3: Flow Run Config: Gas Fraction | FP | — | RW |
| 9558 | 2556 | Slave Device 3: Flow Run Config: Plate Diameter | FP | inch | RW |
| 9559 | 2557 | Slave Device 3: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 9560 | 2558 | Slave Device 3: Flow Run Config: Cone Beta | FP | — | RW |
| 9561 | 2559 | Slave Device 3: Flow Run Config: Nominal Value | FP | — | RW |
| 9562 | 255A | Slave Device 3: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 9563 | 255B | Slave Device 3: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 4 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------------------|--------|
| 9576 | 2568 | Slave Device 4: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 9577 | 2569 | Slave Device 4: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 9578 | 256A | Slave Device 4: Flow Run Config: Nitrogen | FP | — | RW |
| 9579 | 256B | Slave Device 4: Flow Run Config: Specific Gravity | FP | — | RW |
| 9580 | 256C | Slave Device 4: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 9581 | 256D | Slave Device 4: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 9582 | 256E | Slave Device 4: Flow Run Config: Gas Fraction | FP | — | RW |
| 9583 | 256F | Slave Device 4: Flow Run Config: Plate Diameter | FP | inch | RW |
| 9584 | 2570 | Slave Device 4: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 9585 | 2571 | Slave Device 4: Flow Run Config: Cone Beta | FP | — | RW |
| 9586 | 2572 | Slave Device 4: Flow Run Config: Nominal Value | FP | — | RW |
| 9587 | 2573 | Slave Device 4: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 9588 | 2574 | Slave Device 4: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 5 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------------------|--------|
| 9601 | 2581 | Slave Device 5: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 9602 | 2582 | Slave Device 5: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 9603 | 2583 | Slave Device 5: Flow Run Config: Nitrogen | FP | — | RW |
| 9604 | 2584 | Slave Device 5: Flow Run Config: Specific Gravity | FP | — | RW |
| 9605 | 2585 | Slave Device 5: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 9606 | 2586 | Slave Device 5: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 9607 | 2587 | Slave Device 5: Flow Run Config: Gas Fraction | FP | — | RW |
| 9608 | 2588 | Slave Device 5: Flow Run Config: Plate Diameter | FP | inch | RW |
| 9609 | 2589 | Slave Device 5: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 9610 | 258A | Slave Device 5: Flow Run Config: Cone Beta | FP | — | RW |
| 9611 | 258B | Slave Device 5: Flow Run Config: Nominal Value | FP | — | RW |
| 9612 | 258C | Slave Device 5: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 9613 | 258D | Slave Device 5: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 6 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------------------|--------|
| 9626 | 259A | Slave Device 6: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 9627 | 259B | Slave Device 6: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 9628 | 259C | Slave Device 6: Flow Run Config: Nitrogen | FP | — | RW |
| 9629 | 259D | Slave Device 6: Flow Run Config: Specific Gravity | FP | — | RW |
| 9630 | 259E | Slave Device 6: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 9631 | 259F | Slave Device 6: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 9632 | 25A0 | Slave Device 6: Flow Run Config: Gas Fraction | FP | — | RW |
| 9633 | 25A1 | Slave Device 6: Flow Run Config: Plate Diameter | FP | inch | RW |
| 9634 | 25A2 | Slave Device 6: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 9635 | 25A3 | Slave Device 6: Flow Run Config: Cone Beta | FP | — | RW |
| 9636 | 25A4 | Slave Device 6: Flow Run Config: Nominal Value | FP | — | RW |
| 9637 | 25A5 | Slave Device 6: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 9638 | 25A6 | Slave Device 6: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 7 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-------|--------|
| 9651 | 25B3 | Slave Device 7: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 9652 | 25B4 | Slave Device 7: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 9653 | 25B5 | Slave Device 7: Flow Run Config: Nitrogen | FP | — | RW |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------------------|--------|
| 9654 | 25B6 | Slave Device 7: Flow Run Config: Specific Gravity | FP | — | RW |
| 9655 | 25B7 | Slave Device 7: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 9656 | 25B8 | Slave Device 7: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 9657 | 25B9 | Slave Device 7: Flow Run Config: Gas Fraction | FP | — | RW |
| 9658 | 25BA | Slave Device 7: Flow Run Config: Plate Diameter | FP | inch | RW |
| 9659 | 25BB | Slave Device 7: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 9660 | 25BC | Slave Device 7: Flow Run Config: Cone Beta | FP | — | RW |
| 9661 | 25BD | Slave Device 7: Flow Run Config: Nominal Value | FP | — | RW |
| 9662 | 25BE | Slave Device 7: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 9663 | 25BF | Slave Device 7: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 8 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------------------|--------|
| 9676 | 25CC | Slave Device 8: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 9677 | 25CD | Slave Device 8: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 9678 | 25CE | Slave Device 8: Flow Run Config: Nitrogen | FP | — | RW |
| 9679 | 25CF | Slave Device 8: Flow Run Config: Specific Gravity | FP | — | RW |
| 9680 | 25D0 | Slave Device 8: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 9681 | 25D1 | Slave Device 8: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 9682 | 25D2 | Slave Device 8: Flow Run Config: Gas Fraction | FP | — | RW |
| 9683 | 25D3 | Slave Device 8: Flow Run Config: Plate Diameter | FP | inch | RW |
| 9684 | 25D4 | Slave Device 8: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 9685 | 25D5 | Slave Device 8: Flow Run Config: Cone Beta | FP | — | RW |
| 9686 | 25D6 | Slave Device 8: Flow Run Config: Nominal Value | FP | — | RW |
| 9687 | 25D7 | Slave Device 8: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 9688 | 25D8 | Slave Device 8: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 9 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------------------|--------|
| 9701 | 25E5 | Slave Device 9: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 9702 | 25E6 | Slave Device 9: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 9703 | 25E7 | Slave Device 9: Flow Run Config: Nitrogen | FP | — | RW |
| 9704 | 25E8 | Slave Device 9: Flow Run Config: Specific Gravity | FP | — | RW |
| 9705 | 25E9 | Slave Device 9: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 9706 | 25EA | Slave Device 9: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 9707 | 25EB | Slave Device 9: Flow Run Config: Gas Fraction | FP | — | RW |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|------------|--------|
| 9708 | 25EC | Slave Device 9: Flow Run Config: Plate Diameter | FP | inch | RW |
| 9709 | 25ED | Slave Device 9: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 9710 | 25EE | Slave Device 9: Flow Run Config: Cone Beta | FP | — | RW |
| 9711 | 25EF | Slave Device 9: Flow Run Config: Nominal Value | FP | — | RW |
| 9712 | 25F0 | Slave Device 9: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 9713 | 25F1 | Slave Device 9: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 10 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------------------|--------|
| 9726 | 25FE | Slave Device 10: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 9727 | 25FF | Slave Device 10: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 9728 | 2600 | Slave Device 10: Flow Run Config: Nitrogen | FP | — | RW |
| 9729 | 2601 | Slave Device 10: Flow Run Config: Specific Gravity | FP | — | RW |
| 9730 | 2602 | Slave Device 10: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 9731 | 2603 | Slave Device 10: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 9732 | 2604 | Slave Device 10: Flow Run Config: Gas Fraction | FP | — | RW |
| 9733 | 2605 | Slave Device 10: Flow Run Config: Plate Diameter | FP | inch | RW |
| 9734 | 2606 | Slave Device 10: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 9735 | 2607 | Slave Device 10: Flow Run Config: Cone Beta | FP | — | RW |
| 9736 | 2608 | Slave Device 10: Flow Run Config: Nominal Value | FP | — | RW |
| 9737 | 2609 | Slave Device 10: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 9738 | 260A | Slave Device 10: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 11 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------------------|--------|
| 9751 | 2617 | Slave Device 11: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 9752 | 2618 | Slave Device 11: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 9753 | 2619 | Slave Device 11: Flow Run Config: Nitrogen | FP | — | RW |
| 9754 | 261A | Slave Device 11: Flow Run Config: Specific Gravity | FP | — | RW |
| 9755 | 261B | Slave Device 11: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 9756 | 261C | Slave Device 11: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 9757 | 261D | Slave Device 11: Flow Run Config: Gas Fraction | FP | — | RW |
| 9758 | 261E | Slave Device 11: Flow Run Config: Plate Diameter | FP | inch | RW |
| 9759 | 261F | Slave Device 11: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 9760 | 2620 | Slave Device 11: Flow Run Config: Cone Beta | FP | — | RW |
| 9761 | 2621 | Slave Device 11: Flow Run Config: Nominal Value | FP | — | RW |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|------------|--------|
| 9762 | 2622 | Slave Device 11: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 9763 | 2623 | Slave Device 11: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 12 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------------------|--------|
| 9776 | 2630 | Slave Device 12: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 9777 | 2631 | Slave Device 12: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 9778 | 2632 | Slave Device 12: Flow Run Config: Nitrogen | FP | — | RW |
| 9779 | 2633 | Slave Device 12: Flow Run Config: Specific Gravity | FP | — | RW |
| 9780 | 2634 | Slave Device 12: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 9781 | 2635 | Slave Device 12: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 9782 | 2636 | Slave Device 12: Flow Run Config: Gas Fraction | FP | — | RW |
| 9783 | 2637 | Slave Device 12: Flow Run Config: Plate Diameter | FP | inch | RW |
| 9784 | 2638 | Slave Device 12: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 9785 | 2639 | Slave Device 12: Flow Run Config: Cone Beta | FP | — | RW |
| 9786 | 263A | Slave Device 12: Flow Run Config: Nominal Value | FP | — | RW |
| 9787 | 263B | Slave Device 12: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 9788 | 263C | Slave Device 12: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 13 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------------------|--------|
| 9801 | 2649 | Slave Device 13: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 9802 | 264A | Slave Device 13: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 9803 | 264B | Slave Device 13: Flow Run Config: Nitrogen | FP | — | RW |
| 9804 | 264C | Slave Device 13: Flow Run Config: Specific Gravity | FP | — | RW |
| 9805 | 264D | Slave Device 13: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 9806 | 264E | Slave Device 13: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 9807 | 264F | Slave Device 13: Flow Run Config: Gas Fraction | FP | — | RW |
| 9808 | 2650 | Slave Device 13: Flow Run Config: Plate Diameter | FP | inch | RW |
| 9809 | 2651 | Slave Device 13: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 9810 | 2652 | Slave Device 13: Flow Run Config: Cone Beta | FP | — | RW |
| 9811 | 2653 | Slave Device 13: Flow Run Config: Nominal Value | FP | — | RW |
| 9812 | 2654 | Slave Device 13: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 9813 | 2655 | Slave Device 13: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 14 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------------------|--------|
| 9826 | 2662 | Slave Device 14: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 9827 | 2663 | Slave Device 14: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 9828 | 2664 | Slave Device 14: Flow Run Config: Nitrogen | FP | — | RW |
| 9829 | 2665 | Slave Device 14: Flow Run Config: Specific Gravity | FP | — | RW |
| 9830 | 2666 | Slave Device 14: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 9831 | 2667 | Slave Device 14: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 9832 | 2668 | Slave Device 14: Flow Run Config: Gas Fraction | FP | — | RW |
| 9833 | 2669 | Slave Device 14: Flow Run Config: Plate Diameter | FP | inch | RW |
| 9834 | 266A | Slave Device 14: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 9835 | 266B | Slave Device 14: Flow Run Config: Cone Beta | FP | — | RW |
| 9836 | 266C | Slave Device 14: Flow Run Config: Nominal Value | FP | — | RW |
| 9837 | 266D | Slave Device 14: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 9838 | 266E | Slave Device 14: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 15 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------------------|--------|
| 9851 | 267B | Slave Device 15: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 9852 | 267C | Slave Device 15: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 9853 | 267D | Slave Device 15: Flow Run Config: Nitrogen | FP | — | RW |
| 9854 | 267E | Slave Device 15: Flow Run Config: Specific Gravity | FP | — | RW |
| 9855 | 267F | Slave Device 15: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 9856 | 2680 | Slave Device 15: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 9857 | 2681 | Slave Device 15: Flow Run Config: Gas Fraction | FP | — | RW |
| 9858 | 2682 | Slave Device 15: Flow Run Config: Plate Diameter | FP | inch | RW |
| 9859 | 2683 | Slave Device 15: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 9860 | 2684 | Slave Device 15: Flow Run Config: Cone Beta | FP | — | RW |
| 9861 | 2685 | Slave Device 15: Flow Run Config: Nominal Value | FP | — | RW |
| 9862 | 2686 | Slave Device 15: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 9863 | 2687 | Slave Device 15: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 16 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 9876 | 2694 | Slave Device 16: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 9877 | 2695 | Slave Device 16: Flow Run Config: Carbon Dioxide | FP | — | RW |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------------------|--------|
| 9878 | 2696 | Slave Device 16: Flow Run Config: Nitrogen | FP | — | RW |
| 9879 | 2697 | Slave Device 16: Flow Run Config: Specific Gravity | FP | — | RW |
| 9880 | 2698 | Slave Device 16: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 9881 | 2699 | Slave Device 16: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 9882 | 269A | Slave Device 16: Flow Run Config: Gas Fraction | FP | — | RW |
| 9883 | 269B | Slave Device 16: Flow Run Config: Plate Diameter | FP | inch | RW |
| 9884 | 269C | Slave Device 16: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 9885 | 269D | Slave Device 16: Flow Run Config: Cone Beta | FP | — | RW |
| 9886 | 269E | Slave Device 16: Flow Run Config: Nominal Value | FP | — | RW |
| 9887 | 269F | Slave Device 16: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 9888 | 26A0 | Slave Device 16: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 17 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------------------|--------|
| 9901 | 26AD | Slave Device 17: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 9902 | 26AE | Slave Device 17: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 9903 | 26AF | Slave Device 17: Flow Run Config: Nitrogen | FP | — | RW |
| 9904 | 26B0 | Slave Device 17: Flow Run Config: Specific Gravity | FP | — | RW |
| 9905 | 26B1 | Slave Device 17: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 9906 | 26B2 | Slave Device 17: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 9907 | 26B3 | Slave Device 17: Flow Run Config: Gas Fraction | FP | — | RW |
| 9908 | 26B4 | Slave Device 17: Flow Run Config: Plate Diameter | FP | inch | RW |
| 9909 | 26B5 | Slave Device 17: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 9910 | 26B6 | Slave Device 17: Flow Run Config: Cone Beta | FP | — | RW |
| 9911 | 26B7 | Slave Device 17: Flow Run Config: Nominal Value | FP | — | RW |
| 9912 | 26B8 | Slave Device 17: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 9913 | 26B9 | Slave Device 17: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 18 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------------------|--------|
| 9926 | 26C6 | Slave Device 18: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 9927 | 26C7 | Slave Device 18: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 9928 | 26C8 | Slave Device 18: Flow Run Config: Nitrogen | FP | — | RW |
| 9929 | 26C9 | Slave Device 18: Flow Run Config: Specific Gravity | FP | — | RW |
| 9930 | 26CA | Slave Device 18: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 9931 | 26CB | Slave Device 18: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|------------|--------|
| 9932 | 26CC | Slave Device 18: Flow Run Config: Gas Fraction | FP | — | RW |
| 9933 | 26CD | Slave Device 18: Flow Run Config: Plate Diameter | FP | inch | RW |
| 9934 | 26CE | Slave Device 18: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 9935 | 26CF | Slave Device 18: Flow Run Config: Cone Beta | FP | — | RW |
| 9936 | 26D0 | Slave Device 18: Flow Run Config: Nominal Value | FP | — | RW |
| 9937 | 26D1 | Slave Device 18: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 9938 | 26D2 | Slave Device 18: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 19 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------------------|--------|
| 9951 | 26DF | Slave Device 19: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 9952 | 26E0 | Slave Device 19: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 9953 | 26E1 | Slave Device 19: Flow Run Config: Nitrogen | FP | — | RW |
| 9954 | 26E2 | Slave Device 19: Flow Run Config: Specific Gravity | FP | — | RW |
| 9955 | 26E3 | Slave Device 19: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 9956 | 26E4 | Slave Device 19: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 9957 | 26E5 | Slave Device 19: Flow Run Config: Gas Fraction | FP | — | RW |
| 9958 | 26E6 | Slave Device 19: Flow Run Config: Plate Diameter | FP | inch | RW |
| 9959 | 26E7 | Slave Device 19: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 9960 | 26E8 | Slave Device 19: Flow Run Config: Cone Beta | FP | — | RW |
| 9961 | 26E9 | Slave Device 19: Flow Run Config: Nominal Value | FP | — | RW |
| 9962 | 26EA | Slave Device 19: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 9963 | 26EB | Slave Device 19: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 20 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------------------|--------|
| 9976 | 26F8 | Slave Device 20: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 9977 | 26F9 | Slave Device 20: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 9978 | 26FA | Slave Device 20: Flow Run Config: Nitrogen | FP | — | RW |
| 9979 | 26FB | Slave Device 20: Flow Run Config: Specific Gravity | FP | — | RW |
| 9980 | 26FC | Slave Device 20: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 9981 | 26FD | Slave Device 20: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 9982 | 26FE | Slave Device 20: Flow Run Config: Gas Fraction | FP | — | RW |
| 9983 | 26FF | Slave Device 20: Flow Run Config: Plate Diameter | FP | inch | RW |
| 9984 | 2700 | Slave Device 20: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 9985 | 2701 | Slave Device 20: Flow Run Config: Cone Beta | FP | — | RW |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|------------|--------|
| 9986 | 2702 | Slave Device 20: Flow Run Config: Nominal Value | FP | — | RW |
| 9987 | 2703 | Slave Device 20: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 9988 | 2704 | Slave Device 20: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Real Time

This block of two 32-bit registers [one for date (MMDDYY) and one for time (HHMMSS)] is used to set the instrument’s internal clock. To set the time, write all registers in a single message. See [Command Registers, page 13](#) for a list of commands.

Date and time can also be read in the holding register groups as floating-point data. These read-only values are set at the factory and stored in the IEEE 754 single precision floating point format in two 32-bit registers. Only the integer portion of the floating point value is used to represent the date or time. The first register defines the date in MMDDYY format. The second register defines the time in HHMMSS format.

| Parameter | Tag ID |
|--------------------|----------------------------|
| Current Time: Date | m32_RM_MC_CurrentTime_Date |
| Current Time: Time | m32_RM_MC_CurrentTime_Time |

Triggered Registers

The QRATE Scanner 3X00 triggered registers store volumes, averaged values, and flow times since the last triggered archive was captured. The QRATE Scanner 3X00 can be configured via the web interface to automatically create triggered archives based on a variety of modes (log on real time period, periodically, on device alarm, or on digital output) or to support PID tuning when an analog output is configured as a PID controller. Via Modbus, a user can also manually publish a triggered archive by writing a value of 500050 to the command register. See [Command Registers, page 13](#) for details and additional triggered archive commands.

Interval/Daily/Event Pointer Registers

These registers provide an index of the last record that was stored in the log data. These values start at 1 and increment with each newly created log. When the maximum number of records is reached, the pointer resets to 1 and starts incrementing again.

Device Status

The QRATE Scanner 3X00 provides 32 user-configurable alarms that can be assigned to a wide variety of system, device, and flow parameters. These selections includes alarm status and diagnostic information such as input status and calculation status. Alarms can be defined as low alarms, high alarms, or configured with both low and high setpoints.

A bit value of 1 indicates an alarm condition.

For details on configuring an alarm, see the QRATE Scanner 3X00 Web Interface User Manual.

Units

QRATE Scanner 3X00 holding registers allow users to read data in terms of measurement units specified by the installed Modbus map. These units are different from the QRATE Scanner 3X00 local history logs returned as Enron records.

Enron Interval, Daily and Event Registers

The Enron registers are used for polling the interval, daily, and event log records from the QRATE Scanner 3X00 archives. The Enron registers have a read-only access type. The QRATE Scanner 3X00 stores flow run data in two local flow run archives (Flow Run 1 and Flow Run 2), each of which can store up to 58 user-configurable parameters and three system-defined parameters (date, time and Status).

The QRATE Scanner 3X00 also stores data for up to 20 slave archives, and each archive can contain up to 14 user-configurable parameters and two system-defined parameters (date and time).

If a host has difficulty reading large record widths that can exist in local flow run logs, the QRATE Scanner 3X00 can be configured to transmit logs with smaller record widths (for example, device can transmit 16 parameters (13 user-specified registers and three system-defined parameters: date, time and status).

For details on configuring the local archive to transmit the smaller record widths, see the QRATE Scanner 3X00 Web Interface manual.

Enron Interval/Daily Record Format

The interval and daily record contents are user-configurable. The following table shows some of the critical parameters included in the QRATE Scanner 3X00 Enron Modbus record format. To view the complete list of parameters, refer to the QRATE Scanner 3X00 Web Interface Manual. If desired, the response time for the Enron archive can be reduced by limiting the number of items included in the record using the communications configuration selections in the QRATE Scanner 3X00 web interface.

| Parameter | Data Type |
|-------------------------------------|-----------|
| Record Date (MMDDYY) | FP |
| Record Time (HHMMSS) | FP |
| Status | FP |
| FlowRun1_GasVolumeTotal | FP |
| FlowRun1_GasMassTotal | FP |
| FlowRun1_GasEnergyTotal | FP |
| FlowRun1_RunTime | FP |
| FlowRun1_StaticPressure_Value | FP |
| FlowRun1_Temperature_Value | FP |
| FlowRun1_DifferentialPressure_Value | FP |

Enron Slave Record Format

Slave logs transmitted to the QRATE Scanner 3X00 are generally stored in the base units used for Scanner 2x00 Series calculations as defined by Scanner 2x00 Series protocol. The exception is analog input logs, which are stored in the configured unit of the measurement category to which they belong (static pressure, differential pressure, etc.). Slave device base units may vary from the units of the device.

When decoding the register values, pay special attention to the data types shown above to ensure that the fixed values are properly identified. There are two fixed values (date and time) in Scanner 2x00 Series slave records, and three fixed values (date, time, and status) in QRATE Scanner 3X00 records. Refer to the protocol manual for the appropriate Scanner slave device to determine the date type for specific records.

Enron Status Decoder

| | | | | | | | | | | | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
| POR | WDT | MEM | — | F2E | F2C | F2I | F1E | F1C | F1I | INA | FRA | UEV | TRI | EST | PAR |

| Value | POR: Power on Reset |
|--------------|---|
| 0 | No Power on Reset occurred |
| 1 | Power on Reset occurred |
| Value | WDT: Watchdog Timer Reset |
| 0 | No Watchdog Timer Reset occurred |
| 1 | Watchdog Timer Reset occurred |
| Value | MEM: Memory Fault |
| 0 | No Memory Fault occurred |
| 1 | Memory Fault occurred |
| Value | F1E, F2E: Flow Run Calc Error |
| 0 | No calculation errors reported |
| 1 | Calculation errors reported |
| Value | F1C, F2C: Flow Run Calc Change |
| 0 | No calculation changes reported |
| 1 | Calculation change of fluid or flowrate reported |
| Value | F1I, F2I: Flow Run Input Defaulted |
| 0 | No input errors reported |
| 1 | Input error was defaulted |
| Value | INA: Input Alarms |
| 0 | No input alarms reported |
| 1 | Input block(s) reported a hardware out-of-range alarm |
| Value | FRA: Flow Run Alarms |
| 0 | No flow run alarms reported |
| 1 | Flow run alarms reported |
| Value | UEV: User Events |
| 0 | No user events occurred |
| 1 | User events were stored |
| Value | TRI: Triggered Record |
| 0 | Periodic timer resulted in record storage |
| 1 | Triggered event resulted in record storage |
| Value | EST: Estimated Data |
| 0 | Record contains only measured data |
| 1 | Record contains estimated data |
| Value | PAR: Partial Period |
| 0 | Record contains complete configured time period data |
| 1 | Record contains partial time period data only |

The register value returned is in floating point format. Convert the value into decimal format before using the previous table to decode the status.

For example, assume you read the Status as 33 in the Enron message.

- Convert the decimal format into binary format.
 decimal format = 33
 binary format = 32b 0000 0000 0000 0000 0000 0000 0010 0001

2. Refer to the [Enron Status Decoder, page 108](#) to decode the status information. In this example, PAR and INA are active status.

Enron Event Record Format

| Parameter | Data Type |
|---------------|-----------|
| Status | INT32 |
| Address | INT32 |
| Time (HHMMSS) | FP |
| Date (MMDDYY) | FP |
| As-Found | FP |
| As-Left | FP |

The status parameter in the event record can be decoded with the following table:

Alarm Decoding

| Description | Bit |
|--------------------------------------|-----|
| <Unassigned> | 0-8 |
| User Change/Event | 9 |
| Low Low Alarm | 10 |
| Low Alarm | 11 |
| Hi Alarm | 12 |
| Hi Hi Alarm | 13 |
| <Unassigned> | 14 |
| Alarm Set/Reset (1 = Set, 0 = Reset) | 15 |

Log Capacity (QRATE Scanner 3X00)

| Log Type | Device Capacity | Enron Capacity |
|------------------|-----------------|----------------|
| Interval Logs | 24576 to 6144* | 1024 |
| Daily Logs | 2048 | 512 |
| Event/Alarm Logs | 81920 | 4096 |

* Varies with configuration of log record size

Log Capacity (Slave Device)

| Log Type | Device Capacity | Enron Capacity |
|---------------|-----------------|----------------|
| Interval Logs | 12288 | 1024 |
| Daily Logs | 1024 | 512 |

As-Found/As-Left Value Types

| Value Type | Description |
|--------------|--|
| Unused | Floating point 0.0 |
| User ID | User Index Number in floating point format |
| Alarm Value | Floating point representation of a register of any data type |
| Object Index | Floating point index number of the object index (ie: Gas Stream 4 = 4) |
| Slave Index | Floating point index number of the slave device |
| Integer32 | Floating point numeric representation of a 32-bit unsigned integer |
| Integer16 | Floating point numeric representation of a 16-bit unsigned integer |
| Float | Floating point number in base units |

Special Events

| Event | Event Name | Enron Change Flags | System Command Code | As Found | As Left |
|---------------------------|---|--------------------|---------------------|----------|---------|
| Login | Log In | 0x0280 (640) | 0x0000 (0) | User ID | Unused |
| | Log Out | 0x0280 (640) | 0x0001 (1) | User ID | Unused |
| | Login Expired | 0x0280 (640) | 0x0002 (2) | User ID | Unused |
| | Login Disconnected | 0x0280 (640) | 0x0003 (3) | User ID | Unused |
| | Login Attempt Failed | 0x0280 (640) | 0x0004 (4) | User ID | Unused |
| | Login Restricted by Configuration Lock | 0x0280 (640) | 0x0005 (5) | User ID | Unused |
| Security Reset | Security Reset Code Accepted | 0x0280 (640) | 0x0020 (32) | Unused | Unused |
| FTP Server | Log In | 0x0280 (640) | 0x0040 (64) | User ID | Unused |
| | Log Out | 0x0280 (640) | 0x0041 (65) | User ID | Unused |
| | Log In Failed | 0x0280 (640) | 0x0042 (66) | User ID | Unused |
| FTP Upload | Boot Image Binary Uploaded | 0x0280 (640) | 0x0060 (96) | Unused | Unused |
| | Web Image Binary Uploaded | 0x0280 (640) | 0x0061 (97) | Unused | Unused |
| | Protocol Map Uploaded | 0x0280 (640) | 0x0062 (98) | Unused | Unused |
| | — | 0x0280 (640) | 0x0063 (99) | Unused | Unused |
| | — | 0x0280 (640) | 0x0064 (100) | Unused | Unused |
| | Device Configuration Uploaded | 0x0280 (640) | 0x0065 (101) | Unused | Unused |
| Configuration Lock | Lock Disabled | 0x0280 (640) | 0x0080 (128) | Unused | Unused |
| | Lock Enabled | 0x8280 (33408) | 0x0081 (129) | Unused | Unused |
| | Legally-relevant Change Acknowledged through FTP | 0x0280 (640) | 0x0088 (136) | Unused | Unused |
| | Legally-relevant Change Acknowledged through HTTP | 0x0280 (640) | 0x0089 (137) | Unused | Unused |
| HTTP Upload | Boot Image Binary Uploaded | 0x0280 (640) | 0x00A0 (160) | User ID | Unused |
| | Web Image Binary Uploaded | 0x0280 (640) | 0x00A1 (161) | User ID | Unused |
| | Protocol Map Uploaded | 0x0280 (640) | 0x00A2 (162) | User ID | Unused |
| | — | 0x0280 (640) | 0x00A3 (163) | User ID | Unused |
| | — | 0x0280 (640) | 0x00A4 (164) | User ID | Unused |
| | Device Configuration Uploaded | 0x0280 (640) | 0x00A5 (165) | User ID | Unused |

Map Change Events

| Event | Event Name | Enron Change Flags | System Command Code | As Found | As Left |
|------------------------|----------------|--------------------|---------------------|----------|---------|
| Modbus Master 1 | Query Config 1 | 0x0280 (640) | 0x0400 (1024) | Unused | Unused |
| | Query Config 2 | 0x0280 (640) | 0x0401 (1025) | Unused | Unused |
| | Query Config 3 | 0x0280 (640) | 0x0402 (1026) | Unused | Unused |
| | Query Config 4 | 0x0280 (640) | 0x0403 (1027) | Unused | Unused |
| | Query Config 5 | 0x0280 (640) | 0x0404 (1028) | Unused | Unused |

| Event | Event Name | Enron Change Flags | System Command Code | As Found | As Left |
|------------------------|----------------|--------------------|---------------------|----------|---------|
| Modbus Master 2 | Query Config 1 | 0x0280 (640) | 0x0420 (1056) | Unused | Unused |
| | Query Config 2 | 0x0280 (640) | 0x0421 (1057) | Unused | Unused |
| | Query Config 3 | 0x0280 (640) | 0x0422 (1058) | Unused | Unused |
| | Query Config 4 | 0x0280 (640) | 0x0423 (1059) | Unused | Unused |
| | Query Config 5 | 0x0280 (640) | 0x0424 (1060) | Unused | Unused |
| Modbus Master 3 | Query Config 1 | 0x0280 (640) | 0x0440 (1088) | Unused | Unused |
| | Query Config 2 | 0x0280 (640) | 0x0441 (1089) | Unused | Unused |
| | Query Config 3 | 0x0280 (640) | 0x0442 (1090) | Unused | Unused |
| | Query Config 4 | 0x0280 (640) | 0x0443 (1091) | Unused | Unused |
| | Query Config 5 | 0x0280 (640) | 0x0444 (1092) | Unused | Unused |
| Modbus Master 4 | Query Config 1 | 0x0280 (640) | 0x0460 (1120) | Unused | Unused |
| | Query Config 2 | 0x0280 (640) | 0x0461 (1121) | Unused | Unused |
| | Query Config 3 | 0x0280 (640) | 0x0462 (1122) | Unused | Unused |
| | Query Config 4 | 0x0280 (640) | 0x0463 (1123) | Unused | Unused |
| | Query Config 5 | 0x0280 (640) | 0x0464 (1124) | Unused | Unused |
| Modbus Master 5 | Query Config 1 | 0x0280 (640) | 0x0480 (1152) | Unused | Unused |
| | Query Config 2 | 0x0280 (640) | 0x0481 (1153) | Unused | Unused |
| | Query Config 3 | 0x0280 (640) | 0x0482 (1154) | Unused | Unused |
| | Query Config 4 | 0x0280 (640) | 0x0483 (1155) | Unused | Unused |
| | Query Config 5 | 0x0280 (640) | 0x0484 (1156) | Unused | Unused |
| Modbus Master 6 | Query Config 1 | 0x0280 (640) | 0x04A0 (1184) | Unused | Unused |
| | Query Config 2 | 0x0280 (640) | 0x04A1 (1185) | Unused | Unused |
| | Query Config 3 | 0x0280 (640) | 0x04A2 (1186) | Unused | Unused |
| | Query Config 4 | 0x0280 (640) | 0x04A3 (1187) | Unused | Unused |
| | Query Config 5 | 0x0280 (640) | 0x04A4 (1188) | Unused | Unused |

Operational Alarms

| Event | Event Name | Enron Change Flags | System Command Code | As Found | As Left |
|-------------------|-----------------------|--------------------|---------------------|-------------|---------|
| User Alarm | Low Low Alarm Set | 0x8C00 (35840) | — | Alarm Value | Unused |
| | Low Alarm Set | 0x8800 (34816) | — | Alarm Value | Unused |
| | High Alarm Set | 0x9000 (36864) | — | Alarm Value | Unused |
| | High High Alarm Set | 0xB000 (45056) | — | Alarm Value | Unused |
| | Low Low Alarm Reset | 0x0C00 (3072) | — | Alarm Value | Unused |
| | Low Alarm Reset | 0x0800 (2048) | — | Alarm Value | Unused |
| | High Alarm Reset | 0x1000 (4096) | — | Alarm Value | Unused |
| | High High Alarm Reset | 0x3000 (12288) | — | Alarm Value | Unused |

| Event | Event Name | Enron Change Flags | System Command Code | As Found | As Left |
|-----------------------------|--------------------------------|--------------------|---------------------|-------------|--------------|
| Input Alarm | Low Low Alarm Set | 0x8C00 (35840) | — | Alarm Value | Unused |
| | Low Alarm Set | 0x8800 (34816) | — | Alarm Value | Unused |
| | High Alarm Set | 0x9000 (36864) | — | Alarm Value | Unused |
| | High High Alarm Set | 0xB000 (45056) | — | Alarm Value | Unused |
| | Low Low Alarm Reset | 0x0C00 (3072) | — | Alarm Value | Unused |
| | Low Alarm Reset | 0x0800 (2048) | — | Alarm Value | Unused |
| | High Alarm Reset | 0x1000 (4096) | — | Alarm Value | Unused |
| | High High Alarm Reset | 0x3000 (12288) | — | Alarm Value | Unused |
| Gas Stream Set Alarm | Gas Stream Static Override Set | 0x8280 (33408) | 0x8040 (32832) | Unused | Object Index |
| | Molecule 1 Range Fail | 0x8280 (33408) | 0x8041 (32833) | Unused | Object Index |
| | Molecule 2 Range Fail | 0x8280 (33408) | 0x8042 (32834) | Unused | Object Index |
| | Molecule 3 Range Fail | 0x8280 (33408) | 0x8043 (32835) | Unused | Object Index |
| | Molecule 4 Range Fail | 0x8280 (33408) | 0x8044 (32836) | Unused | Object Index |
| | Molecule 5 Range Fail | 0x8280 (33408) | 0x8045 (32837) | Unused | Object Index |
| | Molecule 6 Range Fail | 0x8280 (33408) | 0x8046 (32838) | Unused | Object Index |
| | Molecule 7 Range Fail | 0x8280 (33408) | 0x8047 (32839) | Unused | Object Index |
| | Molecule 8 Range Fail | 0x8280 (33408) | 0x8048 (32840) | Unused | Object Index |
| | Molecule 9 Range Fail | 0x8280 (33408) | 0x8049 (32841) | Unused | Object Index |
| | Molecule 10 Range Fail | 0x8280 (33408) | 0x804A (32842) | Unused | Object Index |
| | Molecule 11 Range Fail | 0x8280 (33408) | 0x804B (32843) | Unused | Object Index |
| | Molecule 12 Range Fail | 0x8280 (33408) | 0x804C (32844) | Unused | Object Index |
| | Molecule 13 Range Fail | 0x8280 (33408) | 0x804D (32845) | Unused | Object Index |
| | Molecule 14 Range Fail | 0x8280 (33408) | 0x804E (32846) | Unused | Object Index |
| | Molecule 15 Range Fail | 0x8280 (33408) | 0x804F (32847) | Unused | Object Index |
| | Molecule 16 Range Fail | 0x8280 (33408) | 0x8050 (32848) | Unused | Object Index |
| | Fractional Sum Test 1 Fail | 0x8280 (33408) | 0x8051 (32849) | Unused | Object Index |
| | Fractional Sum Test 2 Fail | 0x8280 (33408) | 0x8052 (32850) | Unused | Object Index |
| | Fractional Sum Test 3 Fail | 0x8280 (33408) | 0x8053 (32851) | Unused | Object Index |

| Event | Event Name | Enron Change Flags | System Command Code | As Found | As Left |
|------------------------------------|----------------------------------|--------------------|---------------------|--------------|--------------|
| Gas Stream Set Alarm cont'd | Fractional Sum Test 4 Fail | 0x8280 (33408) | 0x8054 (32852) | Unused | Object Index |
| | Input Stale Alarm | 0x8280 (33408) | 0x8055 (32853) | Unused | Object Index |
| Gas Stream Reset Alarm | Gas Stream Static Override Reset | 0x0280 (640) | 0x8060 (32864) | Unused | Object Index |
| | Molecule 1 Range Reset | 0x0280 (640) | 0x8061 (32865) | Unused | Object Index |
| | Molecule 2 Range Reset | 0x0280 (640) | 0x8062 (32866) | Unused | Object Index |
| | Molecule 3 Range Reset | 0x0280 (640) | 0x8063 (32867) | Unused | Object Index |
| | Molecule 4 Range Reset | 0x0280 (640) | 0x8064 (32868) | Unused | Object Index |
| | Molecule 5 Range Reset | 0x0280 (640) | 0x8065 (32869) | Unused | Object Index |
| | Molecule 6 Range Reset | 0x0280 (640) | 0x8066 (32870) | Unused | Object Index |
| | Molecule 7 Range Reset | 0x0280 (640) | 0x8067 (32871) | Unused | Object Index |
| | Molecule 8 Range Reset | 0x0280 (640) | 0x8068 (32872) | Unused | Object Index |
| | Molecule 9 Range Reset | 0x0280 (640) | 0x8069 (32873) | Unused | Object Index |
| | Molecule 10 Range Reset | 0x0280 (640) | 0x806A (32874) | Unused | Object Index |
| | Molecule 11 Range Reset | 0x0280 (640) | 0x806B (32875) | Unused | Object Index |
| | Molecule 12 Range Reset | 0x0280 (640) | 0x806C (32876) | Unused | Object Index |
| | Molecule 13 Range Reset | 0x0280 (640) | 0x806D (32877) | Unused | Object Index |
| | Molecule 14 Range Reset | 0x0280 (640) | 0x806E (32878) | Unused | Object Index |
| | Molecule 15 Range Reset | 0x0280 (640) | 0x806F (32879) | Unused | Object Index |
| | Molecule 16 Range Reset | 0x0280 (640) | 0x8070 (32880) | Unused | Object Index |
| | Fractional Sum Test 1 Reset | 0x0280 (640) | 0x8071 (32881) | Unused | Object Index |
| | Fractional Sum Test 2 Reset | 0x0280 (640) | 0x8072 (32882) | Unused | Object Index |
| | Fractional Sum Test 3 Reset | 0x0280 (640) | 0x8073 (32883) | Unused | Object Index |
| Fractional Sum Test 4 Reset | 0x0280 (640) | 0x8074 (32884) | Unused | Object Index | |
| Input Stale Alarm Reset | 0x0280 (640) | 0x8075 (32885) | Unused | Object Index | |

| Event | Event Name | Enron Change Flags | System Command Code | As Found | As Left |
|--|--|--------------------|---------------------|----------------|--------------|
| Gas Chromatograph Alarm | Gas Chromatograph Alarm Received | 0x8280 (33408) | 0x8080 (32896) | Integer16 | Object Index |
| | Gas Chromatograph Alarm Reset | 0x0280 (640) | 0x8081 (32897) | Integer16 | Object Index |
| Flow Run Set Alarm | Fail Alarm Set | 0x8280 (33408) | 0x8145 (33093) | Unused | Object Index |
| | Static Pressure Input Invalid Set | 0x8280 (33408) | 0x8149 (33097) | Unused | Object Index |
| | Static Pressure Input Mismatch Set | 0x8280 (33408) | 0x814B (33099) | Unused | Object Index |
| | PT Input Invalid Set | 0x8280 (33408) | 0x814C (33100) | Unused | Object Index |
| | PT Input Mismatch Set | 0x8280 (33408) | 0x814E (33102) | Unused | Object Index |
| | Differential Pressure Input Invalid Set | 0x8280 (33408) | 0x814F (33103) | Unused | Object Index |
| | Differential Pressure Input Mismatch Set | 0x8280 (33408) | 0x8151 (33105) | Unused | Object Index |
| | Square Root Differential Pressure Input Invalid Set | 0x8280 (33408) | 0x8152 (33106) | Unused | Object Index |
| | Square Root Differential Pressure Input Mismatch Set | 0x8280 (33408) | 0x8154 (33108) | Unused | Object Index |
| | UA Input Invalid Set | 0x8280 (33408) | 0x8155 (33109) | Unused | Object Index |
| | UA Input Mismatch Set | 0x8280 (33408) | 0x8157 (33111) | Unused | Object Index |
| | BS7W Input Invalid Set | 0x8280 (33408) | 0x815A (33114) | Unused | Object Index |
| | Density Input Invalid Set | 0x8280 (33408) | 0x815B (33115) | Unused | Object Index |
| | Flow Run Reset Alarm | Fail Alarm Reset | 0x0280 (640) | 0x8165 (33125) | Unused |
| Static Pressure Input Invalid Reset | | 0x0280 (640) | 0x8169 (33129) | Unused | Object Index |
| Static Pressure Input Mismatch Reset | | 0x0280 (640) | 0x816B (33131) | Unused | Object Index |
| PT Input Invalid Reset | | 0x0280 (640) | 0x816C (33132) | Unused | Object Index |
| PT Input Mismatch Reset | | 0x0280 (640) | 0x816E (33134) | Unused | Object Index |
| Differential Pressure Input Invalid Reset | | 0x0280 (640) | 0x816F (33135) | Unused | Object Index |
| Differential Pressure Input Mismatch Reset | | 0x0280 (640) | 0x8171 (33137) | Unused | Object Index |
| Square Root Differential Pressure Input Invalid Reset | | 0x0280 (640) | 0x8172 (33138) | Unused | Object Index |
| Square Root Differential Pressure Input Mismatch Reset | | 0x0280 (640) | 0x8174 (33140) | Unused | Object Index |
| UA Input Invalid Reset | | 0x0280 (640) | 0x8175 (33141) | Unused | Object Index |
| UA Input Mismatch Reset | | 0x0280 (640) | 0x8177 (33143) | Unused | Object Index |
| BSW Input Invalid Reset | | 0x0280 (640) | 0x817A (33146) | Unused | Object Index |

| Event | Event Name | Enron Change Flags | System Command Code | As Found | As Left |
|---|---|--------------------|---------------------|--------------|--------------|
| Flow Run Reset Alarm cont'd | Density Input Invalid Reset | 0x0280 (640) | 0x817B (33147) | Unused | Object Index |
| Flow Info Set Alarm | Square Root Differential Pressure Incorrect Set | 0x8280 (33408) | 0x8180 (33152) | Unused | Object Index |
| | Stability Warning Set | 0x8280 (33408) | 0x8181 (33153) | Unused | Object Index |
| | Meter Material Invalid Set | 0x8280 (33408) | 0x8182 (33154) | Unused | Object Index |
| | Meter Alpha Override Invalid Set | 0x8280 (33408) | 0x8183 (33155) | Unused | Object Index |
| | Meter Corrected Diameter Invalid Set | 0x8280 (33408) | 0x8184 (33156) | Unused | Object Index |
| | Orifice Material Invalid Set | 0x8280 (33408) | 0x8185 (33157) | Unused | Object Index |
| | Orifice Alpha Override Invalid Set | 0x8280 (33408) | 0x8186 (33158) | Unused | Object Index |
| | Orifice Corrected Diameter Invalid Set | 0x8280 (33408) | 0x8187 (33159) | Unused | Object Index |
| | Reference Beta Ratio Invalid Set | 0x8280 (33408) | 0x8188 (33160) | Unused | Object Index |
| | Flowing Beta Ratio Invalid Set | 0x8280 (33408) | 0x8189 (33161) | Unused | Object Index |
| | Gas Expansion Factor Invalid Set | 0x8280 (33408) | 0x818A (33162) | Unused | Object Index |
| | Meter Type Invalid Set | 0x8280 (33408) | 0x818B (33163) | Unused | Object Index |
| | Meter Reference Diameter Invalid Set | 0x8280 (33408) | 0x818C (33164) | Unused | Object Index |
| | Orifice Reference Diameter Invalid Set | 0x8280 (33408) | 0x818D (33165) | Unused | Object Index |
| | Orifice Greater Than Meter Diameter Set | 0x8280 (33408) | 0x818E (33166) | Unused | Object Index |
| | Fluid Type Incorrect for Flow Calculation Set | 0x8280 (33408) | 0x818F (33167) | Unused | Object Index |
| | Reynolds Number Low for Flow Calculation Set | 0x8280 (33408) | 0x8190 (33168) | Unused | Object Index |
| | Reynolds Number High for Flow Calculation Set | 0x8280 (33408) | 0x8191 (33169) | Unused | Object Index |
| | Beta Ratio Low for Flow Calculation Set | 0x8280 (33408) | 0x9182 (33170) | Unused | Object Index |
| | Beta Ratio High for Flow Calculation Set | 0x8280 (33408) | 0x9183 (33171) | Unused | Object Index |
| Multiphase Root Search Failure Set | 0x8280 (33408) | 0x9184 (33172) | Unused | Object Index | |
| Multiphase Non-fatal Convergence Fail Set | 0x8280 (33408) | 0x9185 (33173) | Unused | Object Index | |
| Lockhart-Martinelli Warning (X _{lm} > 0.3) Set | 0x8280 (33408) | 0x9186 (33174) | Unused | Object Index | |
| Lockhart-Martinelli Warning (X _{lm} > 0.4) Set | 0x8280 (33408) | 0x9187 (33175) | Unused | Object Index | |

| Event | Event Name | Enron Change Flags | System Command Code | As Found | As Left |
|------------------------------|---|--------------------|---------------------|----------|--------------|
| Flow Info Reset Alarm | Square Root Differential Pressure Incorrect Reset | 0x0280 (640) | 0x81A0 (33184) | Unused | Object Index |
| | Stability Warning Reset | 0x0280 (640) | 0x81A1 (33185) | Unused | Object Index |
| | Meter Material Invalid Reset | 0x0280 (640) | 0x81A2 (33186) | Unused | Object Index |
| | Meter Alpha Override Invalid Reset | 0x0280 (640) | 0x81A3 (33187) | Unused | Object Index |
| | Meter Corrected Diameter Invalid Reset | 0x0280 (640) | 0x81A4 (33188) | Unused | Object Index |
| | Orifice Material Invalid Reset | 0x0280 (640) | 0x81A5 (33189) | Unused | Object Index |
| | Orifice Alpha Override Invalid Reset | 0x0280 (640) | 0x81A6 (33190) | Unused | Object Index |
| | Orifice Corrected Diameter Invalid Reset | 0x0280 (640) | 0x81A7 (33191) | Unused | Object Index |
| | Reference Beta Ratio Invalid Reset | 0x0280 (640) | 0x81A8 (33192) | Unused | Object Index |
| | Flowing Beta Ratio Invalid Reset | 0x0280 (640) | 0x81A9 (33193) | Unused | Object Index |
| | Gas Expansion Factor Invalid Reset | 0x0280 (640) | 0x81AA (33194) | Unused | Object Index |
| | Meter Type Invalid Reset | 0x0280 (640) | 0x81AB (33195) | Unused | Object Index |
| | Meter Reference Diameter Invalid Reset | 0x0280 (640) | 0x81AC (33196) | Unused | Object Index |
| | Orifice Reference Diameter Invalid Reset | 0x0280 (640) | 0x81AD (33197) | Unused | Object Index |
| | Orifice Greater Than Meter Diameter Reset | 0x0280 (640) | 0x81AE (33198) | Unused | Object Index |
| | Fluid Type Incorrect for Flow Calculation Set | 0x8280 (33408) | 0x81AF (33199) | Unused | Object Index |
| | Reynolds Number Low for Flow Calculation Set | 0x8280 (33408) | 0x81B0 (33200) | Unused | Object Index |
| | Reynolds Number High for Flow Calculation Set | 0x8280 (33408) | 0x81B1 (33201) | Unused | Object Index |
| | Beta Ratio Low for Flow Calculation Set | 0x8280 (33408) | 0x81B2 (33202) | Unused | Object Index |
| | Beta Ratio High for Flow Calculation Set | 0x8280 (33408) | 0x81B3 (33203) | Unused | Object Index |
| | Multiphase Root Search Failure Set | 0x8280 (33408) | 0x81B4 (33204) | Unused | Object Index |
| | Multiphase Non-fatal Convergence Fail Set | 0x8280 (33408) | 0x81B5 (33205) | Unused | Object Index |
| | Lockhart-Martinelli Warning (Xlm > 0.3) Set | 0x8280 (33408) | 0x81B6 (33206) | Unused | Object Index |
| | Lockhart-Martinelli Warning (Xlm > 0.4) Set | 0x8280 (33408) | 0x81B7 (33207) | Unused | Object Index |

| Event | Event Name | Enron Change Flags | System Command Code | As Found | As Left |
|-------------------------------|-------------------------------------|--------------------|---------------------|----------|--------------|
| Fluid Info Set Alarm | BS&W Value Incorrect Set | 0x8280 (33408) | 0x81D6 (33238) | Unused | Object Index |
| | Temperature Range Error Set | 0x8280 (33408) | 0x81D8 (33240) | Unused | Object Index |
| | Pressure Range Error Set | 0x8280 (33408) | 0x81D9 (33241) | Unused | Object Index |
| | Thermal Expansion Range Error Set | 0x8280 (33408) | 0x81DA (33242) | Unused | Object Index |
| | Density Range Error Set | 0x8280 (33408) | 0x81DB (33243) | Unused | Object Index |
| | Non Fatal Convergence Fail Set | 0x8280 (33408) | 0x81DE (33246) | Unused | Object Index |
| | ConfigurationErrorSet | 0x8280 (33408) | 0x81DF (33247) | Unused | Object Index |
| Fluid Info Reset Alarm | BS&W Value Incorrect Reset | 0x0280 (640) | 0x81F6 (33270) | Unused | Object Index |
| | Temperature Range Error Reset | 0x0280 (640) | 0x81F8 (33272) | Unused | Object Index |
| | Pressure Range Error Reset | 0x0280 (640) | 0x81F9 (33273) | Unused | Object Index |
| | Thermal Expansion Range Error Reset | 0x0280 (640) | 0x81FA (33274) | Unused | Object Index |
| | Density Range Error Reset | 0x0280 (640) | 0x81FB (33275) | Unused | Object Index |
| | Non Fatal Convergence Fail Reset | 0x0280 (640) | 0x81FE (33278) | Unused | Object Index |
| | ConfigurationErrorReset | 0x0280 (640) | 0x81FF (33279) | Unused | Object Index |

Maintenance Alarms

| Event | Event Name | Enron Change Flags | System Command Code | As Found | As Left |
|--------------------------|-----------------------------|--------------------|---------------------|----------|---------|
| Maintenance Alarm | Enter Maintenance | 0x0280 (640) | 0x8400 (33792) | Unused | Unused |
| | Exit Maintenance | 0x0280 (640) | 0x8401 (33793) | Unused | Unused |
| | Maintenance Session Expired | 0x0280 (640) | 0x8402 (33794) | Unused | Unused |

| Event | Event Name | Enron Change Flags | System Command Code | As Found | As Left |
|---------------------------------|--|--------------------|---------------------|----------|---------|
| Input Calibration Save | Differential Pressure Calibration Saved | 0x0280 (640) | 0x8420 (33824) | Unused | Unused |
| | Static Pressure Calibration Saved | 0x0280 (640) | 0x8421 (33825) | Unused | Unused |
| | RTD1 Calibration Saved | 0x0280 (640) | 0x8422 (33826) | Unused | Unused |
| | RTD2 Calibration Saved | 0x0280 (640) | 0x8423 (33827) | Unused | Unused |
| | Analog Input 1 Calibration Saved | 0x0280 (640) | 0x8424 (33828) | Unused | Unused |
| | Analog Input 2 Calibration Saved | 0x0280 (640) | 0x8425 (33829) | Unused | Unused |
| | Analog Input 3 Calibration Saved | 0x0280 (640) | 0x8426 (33830) | Unused | Unused |
| | Analog Input 4 Calibration Saved | 0x0280 (640) | 0x8427 (33831) | Unused | Unused |
| | Pulse Input 1 Calibration Saved | 0x0280 (640) | 0x8428 (33832) | Unused | Unused |
| | Pulse Input 2 Calibration Saved | 0x0280 (640) | 0x8429 (33833) | Unused | Unused |
| | Pulse Input 3 Calibration Saved | 0x0280 (640) | 0x842A (33834) | Unused | Unused |
| Input Calibration Recall | Differential Pressure Calibration Recalled | 0x0280 (640) | 0x8440 (33856) | Unused | Unused |
| | Static Pressure Calibration Recalled | 0x0280 (640) | 0x8441 (33857) | Unused | Unused |
| | RTD1 Calibration Recalled | 0x0280 (640) | 0x8442 (33858) | Unused | Unused |
| | RTD2 Calibration Recalled | 0x0280 (640) | 0x8443 (33859) | Unused | Unused |
| | Analog Input 1 Calibration Saved | 0x0280 (640) | 0x8444 (33860) | Unused | Unused |
| | Analog Input 2 Calibration Saved | 0x0280 (640) | 0x8445 (33861) | Unused | Unused |
| | Analog Input 3 Calibration Saved | 0x0280 (640) | 0x8446 (33862) | Unused | Unused |
| | Analog Input 4 Calibration Saved | 0x0280 (640) | 0x8447 (33863) | Unused | Unused |
| | Pulse Input 1 Calibration Recalled | 0x0280 (640) | 0x8448 (33864) | Unused | Unused |
| | Pulse Input 2 Calibration Recalled | 0x0280 (640) | 0x8449 (33865) | Unused | Unused |
| | Pulse Input 3 Calibration Recalled | 0x0280 (640) | 0x844A (33866) | Unused | Unused |

| Event | Event Name | Enron Change Flags | System Command Code | As Found | As Left |
|---------------------------------------|--|---|---------------------|----------------|---------|
| Input Verification Save | Differential Pressure Verification Saved | 0x0280 (640) | 0x8460 (33888) | Unused | Unused |
| | Static Pressure Verification Saved | 0x0280 (640) | 0x8461 (33889) | Unused | Unused |
| | RTD1 Verification Saved | 0x0280 (640) | 0x8462 (33890) | Unused | Unused |
| | RTD2 Verification Saved | 0x0280 (640) | 0x8463 (33891) | Unused | Unused |
| | Analog Input 1 Calibration Saved | 0x0280 (640) | 0x8464 (33892) | Unused | Unused |
| | Analog Input 2 Calibration Saved | 0x0280 (640) | 0x8465 (33893) | Unused | Unused |
| | Analog Input 3 Calibration Saved | 0x0280 (640) | 0x8466 (33894) | Unused | Unused |
| | Analog Input 4 Calibration Saved | 0x0280 (640) | 0x8467 (33895) | Unused | Unused |
| | Pulse Input 1 Verification Saved | 0x0280 (640) | 0x8468 (33896) | Unused | Unused |
| | Pulse Input 2 Verification Saved | 0x0280 (640) | 0x8469 (33897) | Unused | Unused |
| | Pulse Input 3 Verification Saved | 0x0280 (640) | 0x846A (33898) | Unused | Unused |
| | Input Verification Recall | Differential Pressure Verification Recalled | 0x0280 (640) | 0x8480 (33920) | Unused |
| Static Pressure Verification Recalled | | 0x0280 (640) | 0x8481 (33921) | Unused | Unused |
| RTD1 Verification Recalled | | 0x0280 (640) | 0x8482 (33922) | Unused | Unused |
| RTD2 Verification Recalled | | 0x0280 (640) | 0x8483 (33923) | Unused | Unused |
| Analog Input 1 Calibration Saved | | 0x0280 (640) | 0x8484 (33924) | Unused | Unused |
| Analog Input 2 Calibration Saved | | 0x0280 (640) | 0x8485 (33925) | Unused | Unused |
| Analog Input 3 Calibration Saved | | 0x0280 (640) | 0x8486 (33926) | Unused | Unused |
| Analog Input 4 Calibration Saved | | 0x0280 (640) | 0x8487 (33927) | Unused | Unused |
| Pulse Input 1 Verification Recalled | | 0x0280 (640) | 0x8488 (33928) | Unused | Unused |
| Pulse Input 2 Verification Recalled | | 0x0280 (640) | 0x8489 (33929) | Unused | Unused |
| Pulse Input 3 Verification Recalled | | 0x0280 (640) | 0x848A (33930) | Unused | Unused |

| Event | Event Name | Enron Change Flags | System Command Code | As Found | As Left |
|--------------------------------------|---|--------------------|---------------------|----------|---------|
| Input Zero Offset | Differential Pressure Zero Offset Saved | 0x0280 (640) | 0x84A0 (33952) | Unused | Unused |
| | Static Pressure Zero Offset Saved | 0x0280 (640) | 0x84A1 (33953) | Unused | Unused |
| | RTD1 Zero Offset Saved | 0x0280 (640) | 0x84A2 (33954) | Unused | Unused |
| | RTD2 Zero Offset Saved | 0x0280 (640) | 0x84A3 (33955) | Unused | Unused |
| | Analog Input 1 Calibration Saved | 0x0280 (640) | 0x84A4 (33956) | Unused | Unused |
| | Analog Input 2 Calibration Saved | 0x0280 (640) | 0x84A5 (33957) | Unused | Unused |
| | Analog Input 3 Calibration Saved | 0x0280 (640) | 0x84A6 (33958) | Unused | Unused |
| | Analog Input 4 Calibration Saved | 0x0280 (640) | 0x84A7 (33959) | Unused | Unused |
| | Pulse Input 1 Zero Offset Saved | 0x0280 (640) | 0x84A8 (33960) | Unused | Unused |
| | Pulse Input 2 Zero Offset Saved | 0x0280 (640) | 0x84A9 (33961) | Unused | Unused |
| | Pulse Input 3 Zero Offset Saved | 0x0280 (640) | 0x84AA (33962) | Unused | Unused |
| Flow Run Calibration Save | Flow Run 1 Cone Calibration Saved | 0x0280 (640) | 0x84C0 (33984) | Unused | Unused |
| | Flow Run 2 Cone Calibration Saved | 0x0280 (640) | 0x84C1 (33985) | Unused | Unused |
| Flow Run Calibration Recall | Flow Run 1 Cone Calibration Recalled | 0x0280 (640) | 0x84E0 (34016) | Unused | Unused |
| | Flow Run 2 Cone Calibration Recalled | 0x0280 (640) | 0x84E1 (34017) | Unused | Unused |
| Analog Out Calibration Save | Analog Output 1 Calibration Saved | 0x0280 (640) | 0x8500 (34048) | Unused | Unused |
| | Analog Output 2 Calibration Saved | 0x0280 (640) | 0x8501 (34049) | Unused | Unused |
| Analog Out Calibration Recall | Analog Output 1 Calibration Recalled | 0x0280 (640) | 0x8520 (34080) | Unused | Unused |
| | Analog Output 2 Calibration Recalled | 0x0280 (640) | 0x8521 (34081) | Unused | Unused |
| Analog Out Calibration Clear | Analog Output 1 Calibration Cleared | 0x0280 (640) | 0x8540 (34112) | Unused | Unused |
| | Analog Output 2 Calibration Cleared | 0x0280 (640) | 0x8541 (34113) | Unused | Unused |

System Alarms

| Event | Event Name | Enron Change Flags | System Command Code | As Found | As Left |
|----------------------------|--|--------------------|---------------------|-----------|---------|
| Device Reset Alarm | Software Reset | 0x0280 (640) | 0x8800 (34816) | Unused | Unused |
| | External Reset | 0x0280 (640) | 0x8801 (34817) | Unused | Unused |
| | Main Processor Core Reset | 0x0280 (640) | 0x8802 (34818) | Unused | Unused |
| | Peripheral Reset | 0x0280 (640) | 0x8803 (34819) | Unused | Unused |
| | Master Generator Reset | 0x0280 (640) | 0x8804 (34820) | Unused | Unused |
| | Brown Out Detect Reset | 0x0280 (640) | 0x8805 (34821) | Unused | Unused |
| | Watchdog Timer Reset | 0x0280 (640) | 0x8806 (34822) | Unused | Unused |
| Load Defaults Alarm | Defaults Loaded from Bootloader | 0x0280 (640) | 0x8820 (34848) | Integer32 | Unused |
| | Defaults Loaded from Keypad | 0x0280 (640) | 0x8821 (34849) | Integer32 | Unused |
| | Defaults Loaded from User Interface | 0x0280 (640) | 0x8822 (34850) | Integer32 | Unused |
| | Network Defaults Loaded from Bootloader | 0x0280 (640) | 0x8823 (34851) | Integer32 | Unused |
| RTOS Alarm | RTOS Launched Successfully | 0x0280 (640) | 0x8840 (34880) | Unused | Unused |
| | RTOS Task Stack Overflow | 0x0280 (640) | 0x8841 (34881) | Unused | Unused |
| | RTOS ISR FIFO Overflow | 0x0280 (640) | 0x8842 (34882) | Unused | Unused |
| | RTOS ISR Mailbox Overflow | 0x0280 (640) | 0x8843 (34883) | Unused | Unused |
| | RTOS Out Of Memory (Msg 20) | 0x0280 (640) | 0x8844 (34884) | Unused | Unused |
| | RTOS Out Of Memory (Msg 80) | 0x0280 (640) | 0x8845 (34885) | Unused | Unused |
| | RTOS Out Of Memory (Msg 272) | 0x0280 (640) | 0x8846 (34886) | Unused | Unused |
| | RTOS Out Of Memory (Msg 1024) | 0x0280 (640) | 0x8847 (34887) | Unused | Unused |
| | RTOS Memory Release Error | 0x0280 (640) | 0x8848 (34888) | Unused | Unused |
| | RTOS Boot Load Flags Initialized | 0x0280 (640) | 0x8849 (34889) | Unused | Unused |
| | RTOS Boot Load Flags Updated | 0x0280 (640) | 0x884A (34890) | Unused | Unused |
| | RTOS Realtime Manager Failed | 0x0280 (640) | 0x884B (34891) | Unused | Unused |
| | RTOS Mail Manager Failed | 0x0280 (640) | 0x884C (34892) | Unused | Unused |
| | RTOS Protocol Manager Failed | 0x0280 (640) | 0x884D (34893) | Unused | Unused |
| | RTOS Flow Computer Manager Failed | 0x0280 (640) | 0x884E (34894) | Unused | Unused |
| | RTOS Network Manager Failed | 0x0280 (640) | 0x884F (34895) | Unused | Unused |
| | RTOS Archive Manager Failed | 0x0280 (640) | 0x8850 (34896) | Unused | Unused |
| | RTOS Conversion Manager Failed | 0x0280 (640) | 0x8851 (34897) | Unused | Unused |
| | RTOS Display Manager Failed | 0x0280 (640) | 0x8852 (34898) | Unused | Unused |
| | RTOS Logic Manager Failed | 0x0280 (640) | 0x8853 (34899) | Unused | Unused |
| Network Stack Alarm | Allocated Memory Failed (out of memory) | 0x0280 (640) | 0x8860 (34912) | Unused | Unused |
| | Free Memory Failed (memory slot invalid) | 0x0280 (640) | 0x8861 (34913) | Unused | Unused |
| | Memory Corruption Detected | 0x0280 (640) | 0x8862 (34914) | Unused | Unused |
| | Locked Memory Function Reentered Error | 0x0280 (640) | 0x8863 (34915) | Unused | Unused |
| | No Free UDP Sockets Available | 0x0280 (640) | 0x8864 (34916) | Unused | Unused |
| | No Free TCP Sockets Available | 0x0280 (640) | 0x8865 (34917) | Unused | Unused |
| | TCP Socket in Undefined State | 0x0280 (640) | 0x8866 (34918) | Unused | Unused |
| | Unknown Stack Error Occurred | 0x0280 (640) | 0x8867 (34919) | Unused | Unused |

| Event | Event Name | Enron Change Flags | System Command Code | As Found | As Left |
|---------------------------|--|--------------------|---------------------|----------|---------|
| Memory Tests | Memory Boot Test Successful | 0x0280 (640) | 0x8880 (34944) | Unused | Unused |
| | External RAM Failure | 0x0280 (640) | 0x8881 (34945) | Unused | Unused |
| | SPIFI Flash Failure | 0x0280 (640) | 0x8882 (34946) | Unused | Unused |
| | SPI Flash Failure | 0x0280 (640) | 0x8883 (34947) | Unused | Unused |
| System Peripherals | All Peripherals Functional | 0x0280 (640) | 0x88A0 (34976) | Unused | Unused |
| | Real Time Clock Failure | 0x0280 (640) | 0x88A1 (34977) | Unused | Unused |
| Firmware Update | Bootloader Firmware | 0x0280 (640) | 0x88DB (35035) | Unused | Unused |
| | Restore CPU Core 1 Firmware | 0x0280 (640) | 0x88C1 (35009) | Unused | Unused |
| | Restore CPU Core 2 Firmware | 0x0280 (640) | 0x88C2 (35010) | Unused | Unused |
| | Restore Low Energy Peripheral Firmware | 0x0280 (640) | 0x88C3 (35011) | Unused | Unused |
| | Restore User Input Controller Firmware | 0x0280 (640) | 0x88C4 (35012) | Unused | Unused |
| | Active Low Energy Peripheral Firmware | 0x0280 (640) | 0x88CB (35019) | Unused | Unused |
| | Active User Input Controller Firmware | 0x0280 (640) | 0x88CC (35020) | Unused | Unused |
| | Active CPU Core 1 Firmware | 0x0280 (640) | 0x88C9 (35017) | Unused | Unused |
| | Active CPU Core 2 Firmware | 0x0280 (640) | 0x88C5 (35013) | Unused | Unused |
| | Active Web Image Binary | 0x0280 (640) | 0x88D9 (35033) | Unused | Unused |
| | Restore Web Image Binary | 0x0280 (640) | 0x88DA (35034) | Unused | Unused |
| | User Protocol Map | 0x0280 (640) | 0x88CE (35022) | Unused | Unused |
| | — | 0x0280 (640) | 0x88CF (35023) | Unused | Unused |
| | — | 0x0280 (640) | 0x88D0 (35024) | Unused | Unused |
| | Local Flow Archives | 0x0280 (640) | 0x88D1 (35025) | Unused | Unused |
| | Local Event Archives | 0x0280 (640) | 0x88D3 (35027) | Unused | Unused |
| | Slave Flow Archives | 0x0280 (640) | 0x88D2 (35026) | Unused | Unused |
| | Slave Event Archives | 0x0280 (640) | 0x88D4 (35028) | Unused | Unused |
| | Triggered Archive | 0x0280 (640) | 0x88D5 (35029) | Unused | Unused |
| | Device Configuration | 0x0280 (640) | 0x88CD (35021) | Unused | Unused |
| Active CPU Core1 Firmware | 0x0280 (640) | 0x88C9 (35017) | Unused | Unused | |

| Event | Event Name | Enron Change Flags | System Command Code | As Found | As Left |
|---------------------------|--|--------------------|---------------------|----------|---------|
| Firmware Erase | Bootloader Firmware | 0x0280 (640) | 0x88FB (35067) | Unused | Unused |
| | Restore CPU Core 1 Firmware | 0x0280 (640) | 0x88E1 (35041) | Unused | Unused |
| | Restore CPU Core 2 Firmware | 0x0280 (640) | 0x88E2 (35042) | Unused | Unused |
| | Restore Low Energy Peripheral Firmware | 0x0280 (640) | 0x88E3 (35043) | Unused | Unused |
| | Restore User Input Controller Firmware | 0x0280 (640) | 0x88E4 (35044) | Unused | Unused |
| | Active Low Energy Peripheral Firmware | 0x0280 (640) | 0x88EB (35051) | Unused | Unused |
| | Active User Input Controller Firmware | 0x0280 (640) | 0x88EC (35052) | Unused | Unused |
| | Active CPU Core 1 Firmware | 0x0280 (640) | 0x88E9 (35049) | Unused | Unused |
| | Active CPU Core 2 Firmware | 0x0280 (640) | 0x88E5 (35045) | Unused | Unused |
| | Active Web Image Binary | 0x0280 (640) | 0x88F9 (35065) | Unused | Unused |
| | Restore Web Image Binary | 0x0280 (640) | 0x88FA (35066) | Unused | Unused |
| | User Protocol Map | 0x0280 (640) | 0x88EE (35054) | Unused | Unused |
| | — | 0x0280 (640) | 0x88EF (35055) | Unused | Unused |
| | — | 0x0280 (640) | 0x88F0 (35056) | Unused | Unused |
| | Local Flow Archives | 0x0280 (640) | 0x88F1 (35057) | Unused | Unused |
| | Local Event Archives | 0x0280 (640) | 0x88F3 (35059) | Unused | Unused |
| | Slave Flow Archives | 0x0280 (640) | 0x88F2 (35058) | Unused | Unused |
| | Slave Event Archives | 0x0280 (640) | 0x88F4 (35060) | Unused | Unused |
| | Triggered Archive | 0x0280 (640) | 0x88F5 (35061) | Unused | Unused |
| | Device Configuration | 0x0280 (640) | 0x88ED (35053) | Unused | Unused |
| Active CPU Core1 Firmware | 0x0280 (640) | 0x88E9 (35049) | Unused | Unused | |

| Event | Event Name | Enron Change Flags | System Command Code | As Found | As Left |
|-------------------------------|--|--------------------|---------------------|----------|---------|
| Firmware Restore | Bootloader Firmware | 0x0280 (640) | 0x891B (35099) | Unused | Unused |
| | Restore CPU Core 1 Firmware | 0x0280 (640) | 0x8901 (35073) | Unused | Unused |
| | Restore CPU Core 2 Firmware | 0x0280 (640) | 0x8902 (35074) | Unused | Unused |
| | Restore Low Energy Peripheral Firmware | 0x0280 (640) | 0x8903 (35075) | Unused | Unused |
| | Restore User Input Controller Firmware | 0x0280 (640) | 0x8904 (35076) | Unused | Unused |
| | Active Low Energy Peripheral Firmware | 0x0280 (640) | 0x890B (35083) | Unused | Unused |
| | Active User Input Controller Firmware | 0x0280 (640) | 0x890C (35084) | Unused | Unused |
| | Active CPU Core 1 Firmware | 0x0280 (640) | 0x8909 (35081) | Unused | Unused |
| | Active CPU Core 2 Firmware | 0x0280 (640) | 0x8905 (35077) | Unused | Unused |
| | Active Web Image Binary | 0x0280 (640) | 0x8919 (35097) | Unused | Unused |
| | Restore Web Image Binary | 0x0280 (640) | 0x891A (35098) | Unused | Unused |
| | User Protocol Map | 0x0280 (640) | 0x890E (35086) | Unused | Unused |
| | — | 0x0280 (640) | 0x890F (35087) | Unused | Unused |
| | — | 0x0280 (640) | 0x8910 (35088) | Unused | Unused |
| | Local Flow Archives | 0x0280 (640) | 0x8911 (35089) | Unused | Unused |
| | Local Event Archives | 0x0280 (640) | 0x8913 (35091) | Unused | Unused |
| | Slave Flow Archives | 0x0280 (640) | 0x8912 (35090) | Unused | Unused |
| | Slave Event Archives | 0x0280 (640) | 0x8914 (35092) | Unused | Unused |
| | Triggered Archive | 0x0280 (640) | 0x8915 (35093) | Unused | Unused |
| | Device Configuration | 0x0280 (640) | 0x890D (35085) | Unused | Unused |
| Active CPU Core1 Firmware | 0x0280 (640) | 0x8909 (35081) | Unused | Unused | |
| Configuration Reset | Device Configuration Formatted | 0x0280 (640) | 0x8921 (35105) | Unused | Unused |
| | Calibration Data Formatted | 0x0280 (640) | 0x8922 (35106) | Unused | Unused |
| | Network Security Settings Formatted | 0x0280 (640) | 0x8924 (35108) | Unused | Unused |
| | Recent Archives Files Formatted | 0x0280 (640) | 0x8928 (35112) | Unused | Unused |
| | Archives Formatted | 0x0280 (640) | 0x8930 (35120) | Unused | Unused |
| System File Generation | Create Change Report Failed | 0x0280 (640) | 0x8941 (35137) | Unused | Unused |
| | Create Selected Tags Report Failed | 0x0280 (640) | 0x8942 (35138) | Unused | Unused |
| | Create User Selections Timed Out | 0x0280 (640) | 0x8944 (35140) | Unused | Unused |
| | User Selections Size Exceeded | 0x0280 (640) | 0x8945 (35141) | Unused | Unused |
| | Internal RAM Disk Initialized | 0x0280 (640) | 0x8946 (35142) | Unused | Unused |

| Event | Event Name | Enron Change Flags | System Command Code | As Found | As Left |
|------------------------------|------------------------------|--------------------|---------------------|----------|---------|
| Low Energy Peripheral | Validated and Launched | 0x0280 (640) | 0x8960 (35168) | Unused | Unused |
| | Boot Loader Failure | 0x0280 (640) | 0x8961 (35169) | Unused | Unused |
| | Boot Loader Incompatible | 0x0280 (640) | 0x8962 (35170) | Unused | Unused |
| | Firmware Out Of Date | 0x0280 (640) | 0x8963 (35171) | Unused | Unused |
| | Firmware Updated | 0x0280 (640) | 0x8964 (35172) | Unused | Unused |
| | Byte Stream Sequence Error | 0x0280 (640) | 0x896A (35178) | Unused | Unused |
| | Port1 Byte Stream Tx Overrun | 0x0280 (640) | 0x896B (35179) | Unused | Unused |
| | Port2 Byte Stream Tx Overrun | 0x0280 (640) | 0x896C (35180) | Unused | Unused |
| | Brown Out Reset | 0x0280 (640) | 0x8970 (35184) | Unused | Unused |
| | Power On Reset | 0x0280 (640) | 0x8971 (35185) | Unused | Unused |
| | Brown Out Reset | 0x0280 (640) | 0x8972 (35186) | Unused | Unused |
| | Deep Sleep Reset | 0x0280 (640) | 0x8973 (35187) | Unused | Unused |
| | Security Violation Reset | 0x0280 (640) | 0x8974 (35188) | Unused | Unused |
| | Voltage Low POR Reset | 0x0280 (640) | 0x8975 (35189) | Unused | Unused |
| | Voltage High POR Reset | 0x0280 (640) | 0x8976 (35190) | Unused | Unused |
| | Voltage Low POR Reset | 0x0280 (640) | 0x8977 (35191) | Unused | Unused |
| | Voltage High POR Reset | 0x0280 (640) | 0x8978 (35192) | Unused | Unused |
| | Power Man POR Reset | 0x0280 (640) | 0x8979 (35193) | Unused | Unused |
| | Watchdog Timer Reset | 0x0280 (640) | 0x897A (35194) | Unused | Unused |
| | Watchdog Password Reset | 0x0280 (640) | 0x897B (35195) | Unused | Unused |
| | Flash Password Reset | 0x0280 (640) | 0x897C (35196) | Unused | Unused |
| | Unknown Reset | 0x0280 (640) | 0x897D (35197) | Unused | Unused |
| | Peripheral Area Fetch Reset | 0x0280 (640) | 0x897E (35198) | Unused | Unused |
| | Power Management Reset | 0x0280 (640) | 0x897F (35199) | Unused | Unused |
| Input Peripheral | Validated and Launched | 0x0280 (640) | 0x8980 (35200) | Unused | Unused |
| | Boot Loader Failure | 0x0280 (640) | 0x8981 (35201) | Unused | Unused |
| | Boot Loader Incompatible | 0x0280 (640) | 0x8982 (35202) | Unused | Unused |
| | Firmware Out Of Date | 0x0280 (640) | 0x8983 (35203) | Unused | Unused |
| | Firmware Updated | 0x0280 (640) | 0x8984 (35204) | Unused | Unused |
| | Brown Out Reset | 0x0280 (640) | 0x8990 (35216) | Unused | Unused |
| | Power On Reset | 0x0280 (640) | 0x8991 (35217) | Unused | Unused |
| | Brown Out Reset | 0x0280 (640) | 0x8992 (35218) | Unused | Unused |
| | Deep Sleep Reset | 0x0280 (640) | 0x8993 (35219) | Unused | Unused |
| | Security Violation Reset | 0x0280 (640) | 0x8994 (35220) | Unused | Unused |
| | Voltage Low POR Reset | 0x0280 (640) | 0x8995 (35221) | Unused | Unused |
| | Voltage High POR Reset | 0x0280 (640) | 0x8996 (35222) | Unused | Unused |
| | Voltage Low POR Reset | 0x0280 (640) | 0x8997 (35223) | Unused | Unused |
| | Voltage High POR Reset | 0x0280 (640) | 0x8998 (35224) | Unused | Unused |
| | Power Man POR Reset | 0x0280 (640) | 0x8999 (35225) | Unused | Unused |
| | Watchdog Timer Reset | 0x0280 (640) | 0x899A (35226) | Unused | Unused |
| | Watchdog Password Reset | 0x0280 (640) | 0x899B (35227) | Unused | Unused |
| | Flash Password Reset | 0x0280 (640) | 0x899C (35228) | Unused | Unused |
| | Unknown Reset | 0x0280 (640) | 0x899D (35229) | Unused | Unused |
| | Peripheral Area Fetch Reset | 0x0280 (640) | 0x899E (35230) | Unused | Unused |
| | Power Management Reset | 0x0280 (640) | 0x899F (35231) | Unused | Unused |

| Event | Event Name | Enron Change Flags | System Command Code | As Found | As Left |
|-----------------------------|---|--------------------|---------------------|----------|---------|
| Real Time Adjustment | System Time Corrected to Real Time Clock | 0x0280 (640) | 0x89A0 (35232) | Float | Unused |
| Task Restart | Realtime Manager Restart Successful | 0x0280 (640) | 0x89C0 (35264) | Unused | Unused |
| | Mail Manager Restart Successful | 0x0280 (640) | 0x89C1 (35265) | Unused | Unused |
| | Protocol Manager Restart Successful | 0x0280 (640) | 0x89C2 (35266) | Unused | Unused |
| | Flow Computer Manager Restart Successful | 0x0280 (640) | 0x89C3 (35267) | Unused | Unused |
| | Network Manager Restart Successful | 0x0280 (640) | 0x89C4 (35268) | Unused | Unused |
| | Archive Manager Restart Successful | 0x0280 (640) | 0x89C5 (35269) | Unused | Unused |
| | Conversion Manager Restart Successful | 0x0280 (640) | 0x89C6 (35270) | Unused | Unused |
| | Display Manager Restart Successful | 0x0280 (640) | 0x89C7 (35271) | Unused | Unused |
| | Realtime Manager Restart Failed | 0x0280 (640) | 0x89D0 (35280) | Unused | Unused |
| | Mail Manager Restart Failed | 0x0280 (640) | 0x89D1 (35281) | Unused | Unused |
| | Protocol Manager Restart Failed | 0x0280 (640) | 0x89D2 (35282) | Unused | Unused |
| | Flow Computer Manager Restart Failed | 0x0280 (640) | 0x89D3 (35283) | Unused | Unused |
| | Network Manager Restart Failed | 0x0280 (640) | 0x89D4 (35284) | Unused | Unused |
| | Archive Manager Restart Failed | 0x0280 (640) | 0x89D5 (35285) | Unused | Unused |
| | Conversion Manager Restart Failed | 0x0280 (640) | 0x89D6 (35286) | Unused | Unused |
| | Display Manager Restart Failed | 0x0280 (640) | 0x89D7 (35287) | Unused | Unused |
| Firmware State | Boot Loader Launch | 0x0280 (640) | 0x89E0 (35296) | Float | Unused |
| | Application Launch | 0x0280 (640) | 0x89E1 (35297) | Float | Unused |
| | Low Energy Peripheral Launch | 0x0280 (640) | 0x89E2 (35298) | Float | Unused |
| | User Input Peripheral Launch | 0x0280 (640) | 0x89E3 (35299) | Float | Unused |
| | Advanced Communication Peripheral Launch | 0x0280 (640) | 0x89E4 (35300) | Float | Unused |
| | Web Interface Launch | 0x0280 (640) | 0x89E5 (35301) | Float | Unused |
| | Boot Loader Shut Down | 0x0280 (640) | 0x89F0 (35312) | Float | Unused |
| | Application Shut Down | 0x0280 (640) | 0x89F1 (35313) | Float | Unused |
| | Low Energy Peripheral Shut Down | 0x0280 (640) | 0x89F2 (35314) | Float | Unused |
| | User Input Peripheral Shut Down | 0x0280 (640) | 0x89F3 (35315) | Float | Unused |
| | Advanced Communication Peripheral Shut Down | 0x0280 (640) | 0x89F4 (35316) | Float | Unused |
| | Web Interface Shut Down | 0x0280 (640) | 0x89F5 (35317) | Float | Unused |

| Event | Event Name | Enron Change Flags | System Command Code | As Found | As Left |
|--|-----------------------------|--------------------|---------------------|----------|---------|
| Advanced Communication Peripheral | Validated | 0x0280 (640) | 0x8A00 (35328) | Unused | Unused |
| | Bootloader Failure | 0x0280 (640) | 0x8A01 (35329) | Unused | Unused |
| | Bootloader Incompatible | 0x0280 (640) | 0x8A02 (35330) | Unused | Unused |
| | Firmware Out of Date | 0x0280 (640) | 0x8A03 (35331) | Unused | Unused |
| | Firmware Updated | 0x0280 (640) | 0x8A04 (35332) | Unused | Unused |
| | Brown Out Reset | 0x0280 (640) | 0x8A10 (35344) | Unused | Unused |
| | Power On Reset | 0x0280 (640) | 0x8A11 (35345) | Unused | Unused |
| | Brown Out Reset | 0x0280 (640) | 0x8A12 (35346) | Unused | Unused |
| | Deep Sleep Reset | 0x0280 (640) | 0x8A13 (35347) | Unused | Unused |
| | Security Violation Reset | 0x0280 (640) | 0x8A14 (35348) | Unused | Unused |
| | Voltage Low POR Reset | 0x0280 (640) | 0x8A15 (35349) | Unused | Unused |
| | Voltage High POR Reset | 0x0280 (640) | 0x8A16 (35350) | Unused | Unused |
| | Voltage Low POR Reset | 0x0280 (640) | 0x8A17 (35351) | Unused | Unused |
| | Voltage High POR Reset | 0x0280 (640) | 0x8A18 (35352) | Unused | Unused |
| | Power Man POR Reset | 0x0280 (640) | 0x8A19 (35353) | Unused | Unused |
| | Watchdog Timer Reset | 0x0280 (640) | 0x8A1A (35354) | Unused | Unused |
| | Watchdog Password Reset | 0x0280 (640) | 0x8A1B (35355) | Unused | Unused |
| | Flash Password Reset | 0x0280 (640) | 0x8A1C (35356) | Unused | Unused |
| | Unknown Reset | 0x0280 (640) | 0x8A1D (35357) | Unused | Unused |
| | Peripheral Area Fetch Reset | 0x0280 (640) | 0x8A1E (35358) | Unused | Unused |
| Power Management Reset | 0x0280 (640) | 0x8A1F (35359) | Unused | Unused | |

Data Acquisition Alarms

| Event | Event Name | Enron Change Flags | System Command Code | As Found | As Left |
|----------------------------|--|--------------------|---------------------|-----------|---------|
| Factory Calibration | MVT Calibration Invalid | 0x0280 (640) | 0x8C00 (35840) | Unused | Unused |
| | RTD Calibration Invalid | 0x0280 (640) | 0x8C01 (35841) | Unused | Unused |
| | Analog Input Calibration Invalid | 0x0280 (640) | 0x8C02 (35842) | Unused | Unused |
| | Pulse Input Calibration Invalid | 0x0280 (640) | 0x8C03 (35843) | Unused | Unused |
| | Misc. Calibration Invalid | 0x0280 (640) | 0x8C04 (35844) | Unused | Unused |
| MVT Cell | MVT Successfully Installed (Die ID) | 0x0280 (640) | 0x8C20 (35872) | Integer32 | Unused |
| | MVT Not Installed | 0x0280 (640) | 0x8C21 (35873) | Integer32 | Unused |
| | MVT Static Pressure Range (psia) | 0x0280 (640) | 0x8C22 (35874) | Integer32 | Unused |
| | MVT Differential Pressure Range (in H2O @ 68F) | 0x0280 (640) | 0x8C23 (35875) | Integer32 | Unused |

| Event | Event Name | Enrron Change Flags | System Command Code | As Found | As Left |
|------------------------------------|--|---------------------|---------------------|----------|---------|
| Parallel ADC | System Timed Out | 0x0280 (640) | 0x8C40 (35904) | Unused | Unused |
| | Differential Pressure Sample Estimated | 0x0280 (640) | 0x8C41 (35905) | Unused | Unused |
| | Static Pressure Sample Estimated | 0x0280 (640) | 0x8C42 (35906) | Unused | Unused |
| | TSEN Sample Estimated | 0x0280 (640) | 0x8C43 (35907) | Unused | Unused |
| | RTD1 Sample Estimated | 0x0280 (640) | 0x8C44 (35908) | Unused | Unused |
| | RTD2 Sample Estimated | 0x0280 (640) | 0x8C45 (35909) | Unused | Unused |
| | Analog Input 1 Sample Estimated | 0x0280 (640) | 0x8C46 (35910) | Unused | Unused |
| | Analog Input 2 Sample Estimated | 0x0280 (640) | 0x8C47 (35911) | Unused | Unused |
| | Analog Input 3 Sample Estimated | 0x0280 (640) | 0x8C48 (35912) | Unused | Unused |
| | Analog Input 4 Sample Estimated | 0x0280 (640) | 0x8C49 (35913) | Unused | Unused |
| Pulse Input Set Alarm Set | Dual Pulse Number Error Set | 0x8280 (33408) | 0x8D40 (36160) | Unused | Unused |
| | Dual Pulse Frequency Error Set | 0x8280 (33408) | 0x8D41 (36161) | Unused | Unused |
| | Dual Pulse Phase Error Set | 0x8280 (33408) | 0x8D42 (36162) | Unused | Unused |
| | Dual Pulse Simul-Intfnce Set | 0x8280 (33408) | 0x8D43 (36163) | Unused | Unused |
| | Pulse Sequence Error Set | 0x8280 (33408) | 0x8D44 (36164) | Unused | Unused |
| | Pulse Input 1 Bent Rotor Blade Detect Set | 0x8280 (33408) | 0x8D48 (36168) | Unused | Unused |
| | Pulse Input 1 Missing Rotor Blade Detect Set | 0x8280 (33408) | 0x8D49 (36169) | Unused | Unused |
| | Pulse Input 2 Bent Rotor Blade Detect Set | 0x8280 (33408) | 0x8D50 (36176) | Unused | Unused |
| | Pulse Input 2 Missing Rotor Blade Detect Set | 0x8280 (33408) | 0x8D51 (36177) | Unused | Unused |
| Pulse Input Set Alarm Reset | Dual Pulse Number Error Set | 0x8280 (33408) | 0x8D60 (36192) | Unused | Unused |
| | Dual Pulse Frequency Error Set | 0x8280 (33408) | 0x8D61 (36193) | Unused | Unused |
| | Dual Pulse Phase Error Set | 0x8280 (33408) | 0x8D62 (36194) | Unused | Unused |
| | Dual Pulse Simul-Intfnce Set | 0x8280 (33408) | 0x8D63 (36195) | Unused | Unused |
| | Pulse Sequence Error Set | 0x8280 (33408) | 0x8D64 (36196) | Unused | Unused |
| | Pulse Input 1 Bent Rotor Blade Detect Set | 0x8280 (33408) | 0x8D68 (36200) | Unused | Unused |
| | Pulse Input 1 Missing Rotor Blade Detect Set | 0x8280 (33408) | 0x8D69 (36201) | Unused | Unused |
| | Pulse Input 2 Bent Rotor Blade Detect Set | 0x8280 (33408) | 0x8D70 (36208) | Unused | Unused |
| | Pulse Input 2 Missing Rotor Blade Detect Set | 0x8280 (33408) | 0x8D71 (36209) | Unused | Unused |

Archive Alarms

| Event | Event Name | Enron Change Flags | System Command Code | As Found | As Left |
|-----------------------|--|--------------------|---------------------|----------|---------|
| User Event Alarm | User Event Overflow | 0x0280 (640) | 0x9000 (36864) | Unused | Unused |
| SnapShot System Alarm | Failed—Snapshot Already in Progress | 0x0280 (640) | 0x9020 (36896) | Unused | Unused |
| | Failed—Snapshot Received Incomplete Response | 0x0280 (640) | 0x9021 (36897) | Unused | Unused |
| | Failed—Could Not Create File | 0x0280 (640) | 0x9022 (36898) | Unused | Unused |
| | Failed—Could Not Write to File | 0x0280 (640) | 0x9023 (36899) | Unused | Unused |
| | Failed—Memory Not Available | 0x0280 (640) | 0x9024 (36900) | Unused | Unused |
| | Failed—File in Use | 0x0280 (640) | 0x9025 (36901) | Unused | Unused |

Slave Device Alarms

| Event | Event Name | Enron Change Flags | System Command Code | As Found | As Left |
|----------------------------|--------------------------------|--------------------|---------------------|-------------|---------|
| Slave Connection | Slave Operational | 0x0280 (640) | 0x9400 (37888) | Slave Index | Unused |
| | Slave Lost | 0x0280 (640) | 0x9401 (37889) | Slave Index | Unused |
| Slave Time Synchronization | Auto Slave Clock Synchronize | 0x0280 (640) | 0x9420 (37920) | Slave Index | Unused |
| | Manual Slave Clock Synchronize | 0x0280 (640) | 0x9421 (37921) | Slave Index | Unused |
| Slave Communication | Serial Packet Retry | 0x0280 (640) | 0x9440 (37952) | Slave Index | Unused |
| | Serial Packet Lost | 0x0280 (640) | 0x9441 (37953) | Slave Index | Unused |

Ethernet Alarms

| Event | Event Name | Enron Change Flags | System Command Code | As Found | As Left |
|---------------------------|---------------------------------|--------------------|---------------------|-----------|---------|
| Ethernet Link Status | Ethernet Initialized | 0x0280 (640) | 0x9800 (38912) | Integer16 | Unused |
| Ethernet Negotiation Time | Connection Time Percent | 0x0280 (640) | 0x9820 (38944) | Float | Unused |
| DHCP Client Status | Device Configured for Static IP | 0x0280 (640) | 0x9840 (38976) | Unused | Unused |
| | Dynamic Address Acquired | 0x0280 (640) | 0x9841 (38977) | Unused | Unused |
| | Failed to Connect | 0x0280 (640) | 0x9842 (38978) | Unused | Unused |
| | Client Restarted for Retry | 0x0280 (640) | 0x9843 (38979) | Unused | Unused |
| DHCP Negotiation Time | Connection Time Percent | 0x0280 (640) | 0x9860 (39008) | Float | Unused |

DIO Alarms

| Event | Event Name | Enron Change Flags | System Command Code | As Found | As Left |
|---|----------------------------------|--------------------|---------------------|-----------|--------------|
| Digital I/O (DIO) Special Function | Unlatch DIO1 | 0x0280 (640) | 0x9C20 (39968) | Unused | Object Index |
| | Unlatch DIO2 | 0x0280 (640) | 0x9C21 (39969) | Unused | Object Index |
| | Unlatch DIO3 | 0x0280 (640) | 0x9C22 (39970) | Unused | Object Index |
| | Unlatch DIO4 | 0x0280 (640) | 0x9C23 (39971) | Unused | Object Index |
| | Unlatch DIO5 | 0x0280 (640) | 0x9C24 (39972) | Unused | Object Index |
| | Unlatch DIO6 | 0x0280 (640) | 0x9C25 (39973) | Unused | Object Index |
| | Reset PI1 Grand Total | 0x0280 (640) | 0x9C28 (39976) | Unused | Object Index |
| | Reset PI2 Grand Total | 0x0280 (640) | 0x9C29 (39977) | Unused | Object Index |
| | Reset PI3 Grand Total | 0x0280 (640) | 0x9C2A (39978) | Unused | Object Index |
| | Reset Flow Run 1 Grand Total | 0x0280 (640) | 0x9C2C (39980) | Unused | Object Index |
| | Reset Flow Run 2 Grand Total | 0x0280 (640) | 0x9C2D (39981) | Unused | Object Index |
| | Scanner Logic Program Reset | 0x0280 (640) | 0x9C30 (39984) | Unused | Object Index |
| | Scanner Logic Program Abort | 0x0280 (640) | 0x9C31 (39985) | Unused | Object Index |
| | Acknowledge Device Alarms | 0x0280 (640) | 0x9C34 (39988) | Unused | Object Index |
| | Create Partial Archive Records | 0x0280 (640) | 0x9C38 (39992) | Unused | Object Index |
| | Publish Triggered Archive Record | 0x0280 (640) | 0x9C3A (39994) | Unused | Object Index |
| | Unlatch Triggered Archive | 0x0280 (640) | 0x9C3B (39995) | Unused | Object Index |
| | Disable Wireless Transmission | 0x0280 (640) | 0x9C3C (39996) | Unused | Object Index |
| | Enable Wireless Transmission | 0x0280 (640) | 0x9C3D (39997) | Unused | Object Index |
| DIO Manual Control | Set Inactive | 0x0280 (640) | 0x9C40 (40000) | Unused | Object Index |
| | Set Active | 0x0280 (640) | 0x9C41 (40001) | Unused | Object Index |
| DIO Device Alarms | Reset Inactive | 0x0280 (640) | 0x9C60 (40032) | Integer16 | Object Index |
| | Set Active | 0x0280 (640) | 0x9C61 (40033) | Integer16 | Object Index |
| DIO Lower Limit | Above Limit Reset | 0x0280 (640) | 0x9C80 (40064) | Float | Object Index |
| | Below Limit Set | 0x0280 (640) | 0x9C81 (40065) | Float | Object Index |
| DIO Upper Limit | Below Limit Reset | 0x0280 (640) | 0x9CA0 (40096) | Float | Object Index |
| | Above Limit Set | 0x0280 (640) | 0x9CA1 (40097) | Float | Object Index |
| DIO Window Limit | Inside Window Reset | 0x0280 (640) | 0x9CC0 (40128) | Float | Object Index |
| | Outside Window Set | 0x0280 (640) | 0x9CC1 (40129) | Float | Object Index |
| DIO Time of Day | Output Off Time | 0x0280 (640) | 0x9CE0 (40160) | Unused | Object Index |
| | Output On Time | 0x0280 (640) | 0x9CE1 (40161) | Unused | Object Index |

Real Time Clock

| Event | Event Name | Enron Change Flags | System Command Code | As Found | As Left |
|---------------------|---------------------|--------------------|---------------------|----------|---------|
| Device Date Changed | Device Date Changed | 0x0280 (640) | 0xA000 (40960) | Date | Date |
| Device Time Changed | Device Time Changed | 0x0280 (640) | 0xA020 (40992) | Time | Time |

Logic Controller

| Event | Event Name | Enron Change Flags | System Command Code | As Found | As Left |
|----------------|----------------------------|--------------------|---------------------|----------|---------|
| Program File | Validated | 0x0280 (640) | 0xA400 (41984) | Unused | Unused |
| | Invalid | 0x0280 (640) | 0xA401 (41985) | Unused | Unused |
| Task Execution | Started | 0x0280 (640) | 0xA420 (42016) | Unused | Unused |
| | Halted | 0x0280 (640) | 0xA421 (42017) | Unused | Unused |
| State Change | Task Entered Initial State | 0x0280 (640) | 0xA440 (42048) | State | Task |
| | Task Exit Initial State | 0x0280 (640) | 0xA441 (42049) | State | Task |
| | Task Entered Fail State | 0x0280 (640) | 0xA442 (42050) | State | Task |
| | Task Exit Fail State | 0x0280 (640) | 0xA443 (42051) | State | Task |
| | Task Entered Abort State | 0x0280 (640) | 0xA444 (42052) | State | Task |
| | Task Exit Abort State | 0x0280 (640) | 0xA445 (42053) | State | Task |
| | Task Entered User State | 0x0280 (640) | 0xA450 (42064) | State | Task |
| | Task Exit User State | 0x0280 (640) | 0xA451 (42065) | State | Task |
| | Task Subroutine Call | 0x0280 (640) | 0xA452 (42066) | State | Task |

| Event | Event Name | Enron Change Flags | System Command Code | As Found | As Left |
|-------------------|--------------|--------------------|---------------------|----------|---------|
| Program Alarm Set | Alarm 1 Set | 0x8280 (33408) | 0xA460 (42080) | Unused | Unused |
| | Alarm 2 Set | 0x8280 (33408) | 0xA461 (42081) | Unused | Unused |
| | Alarm 3 Set | 0x8280 (33408) | 0xA462 (42082) | Unused | Unused |
| | Alarm 4 Set | 0x8280 (33408) | 0xA463 (42083) | Unused | Unused |
| | Alarm 5 Set | 0x8280 (33408) | 0xA464 (42084) | Unused | Unused |
| | Alarm 6 Set | 0x8280 (33408) | 0xA465 (42085) | Unused | Unused |
| | Alarm 7 Set | 0x8280 (33408) | 0xA466 (42086) | Unused | Unused |
| | Alarm 8 Set | 0x8280 (33408) | 0xA467 (42087) | Unused | Unused |
| | Alarm 9 Set | 0x8280 (33408) | 0xA468 (42088) | Unused | Unused |
| | Alarm 10 Set | 0x8280 (33408) | 0xA469 (42089) | Unused | Unused |
| | Alarm 11 Set | 0x8280 (33408) | 0xA46A (42090) | Unused | Unused |
| | Alarm 12 Set | 0x8280 (33408) | 0xA46B (42091) | Unused | Unused |
| | Alarm 13 Set | 0x8280 (33408) | 0xA46C (42092) | Unused | Unused |
| | Alarm 14 Set | 0x8280 (33408) | 0xA46D (42093) | Unused | Unused |
| | Alarm 15 Set | 0x8280 (33408) | 0xA46E (42094) | Unused | Unused |
| | Alarm 16 Set | 0x8280 (33408) | 0xA46F (42095) | Unused | Unused |
| | Alarm 17 Set | 0x8280 (33408) | 0xA470 (42096) | Unused | Unused |
| | Alarm 18 Set | 0x8280 (33408) | 0xA471 (42097) | Unused | Unused |
| | Alarm 19 Set | 0x8280 (33408) | 0xA472 (42098) | Unused | Unused |
| | Alarm 20 Set | 0x8280 (33408) | 0xA473 (42099) | Unused | Unused |
| | Alarm 21 Set | 0x8280 (33408) | 0xA474 (42100) | Unused | Unused |
| | Alarm 22 Set | 0x8280 (33408) | 0xA475 (42101) | Unused | Unused |
| | Alarm 23 Set | 0x8280 (33408) | 0xA476 (42102) | Unused | Unused |
| | Alarm 24 Set | 0x8280 (33408) | 0xA477 (42103) | Unused | Unused |
| | Alarm 25 Set | 0x8280 (33408) | 0xA478 (42104) | Unused | Unused |
| | Alarm 26 Set | 0x8280 (33408) | 0xA479 (42105) | Unused | Unused |
| | Alarm 27 Set | 0x8280 (33408) | 0xA47A (42106) | Unused | Unused |
| | Alarm 28 Set | 0x8280 (33408) | 0xA47B (42107) | Unused | Unused |
| | Alarm 29 Set | 0x8280 (33408) | 0xA47C (42108) | Unused | Unused |
| | Alarm 30 Set | 0x8280 (33408) | 0xA47D (42109) | Unused | Unused |
| | Alarm 31 Set | 0x8280 (33408) | 0xA47E (42110) | Unused | Unused |
| | Alarm 32 Set | 0x8280 (33408) | 0xA47F (42111) | Unused | Unused |

| Event | Event Name | Enron Change Flags | System Command Code | As Found | As Left |
|----------------------------|-----------------------|--------------------|---------------------|----------|---------|
| Program Alarm Reset | Alarm 1 Reset | 0x0280 (640) | 0xA480 (42112) | Unused | Unused |
| | Alarm 2 Reset | 0x0280 (640) | 0xA481 (42113) | Unused | Unused |
| | Alarm 3 Reset | 0x0280 (640) | 0xA482 (42114) | Unused | Unused |
| | Alarm 4 Reset | 0x0280 (640) | 0xA483 (42115) | Unused | Unused |
| | Alarm 5 Reset | 0x0280 (640) | 0xA484 (42116) | Unused | Unused |
| | Alarm 6 Reset | 0x0280 (640) | 0xA485 (42117) | Unused | Unused |
| | Alarm 7 Reset | 0x0280 (640) | 0xA486 (42118) | Unused | Unused |
| | Alarm 8 Reset | 0x0280 (640) | 0xA487 (42119) | Unused | Unused |
| | Alarm 9 Reset | 0x0280 (640) | 0xA488 (42120) | Unused | Unused |
| | Alarm 10 Reset | 0x0280 (640) | 0xA489 (42121) | Unused | Unused |
| | Alarm 11 Reset | 0x0280 (640) | 0xA48A (42122) | Unused | Unused |
| | Alarm 12 Reset | 0x0280 (640) | 0xA48B (42123) | Unused | Unused |
| | Alarm 13 Reset | 0x0280 (640) | 0xA48C (42124) | Unused | Unused |
| | Alarm 14 Reset | 0x0280 (640) | 0xA48D (42125) | Unused | Unused |
| | Alarm 15 Reset | 0x0280 (640) | 0xA48E (42126) | Unused | Unused |
| | Alarm 16 Reset | 0x0280 (640) | 0xA48F (42127) | Unused | Unused |
| | Alarm 17 Reset | 0x0280 (640) | 0xA490 (42128) | Unused | Unused |
| | Alarm 18 Reset | 0x0280 (640) | 0xA491 (42129) | Unused | Unused |
| | Alarm 19 Reset | 0x0280 (640) | 0xA492 (42130) | Unused | Unused |
| | Alarm 20 Reset | 0x0280 (640) | 0xA493 (42131) | Unused | Unused |
| | Alarm 21 Reset | 0x0280 (640) | 0xA494 (42132) | Unused | Unused |
| | Alarm 22 Reset | 0x0280 (640) | 0xA495 (42133) | Unused | Unused |
| | Alarm 23 Reset | 0x0280 (640) | 0xA496 (42134) | Unused | Unused |
| | Alarm 24 Reset | 0x0280 (640) | 0xA497 (42135) | Unused | Unused |
| | Alarm 25 Reset | 0x0280 (640) | 0xA498 (42136) | Unused | Unused |
| | Alarm 26 Reset | 0x0280 (640) | 0xA499 (42137) | Unused | Unused |
| | Alarm 27 Reset | 0x0280 (640) | 0xA49A (42138) | Unused | Unused |
| | Alarm 28 Reset | 0x0280 (640) | 0xA49B (42139) | Unused | Unused |
| | Alarm 29 Reset | 0x0280 (640) | 0xA49C (42140) | Unused | Unused |
| | Alarm 30 Reset | 0x0280 (640) | 0xA49D (42141) | Unused | Unused |
| | Alarm 31 Reset | 0x0280 (640) | 0xA49E (42142) | Unused | Unused |
| | Alarm 32 Reset | 0x0280 (640) | 0xA49F (42143) | Unused | Unused |
| User Event Value | User Event 1 | 0x0280 (640) | 0xA4A0 (42144) | Float | Unused |
| | User Event 2 | 0x0280 (640) | 0xA4A1 (42145) | Float | Unused |
| | User Event 3 | 0x0280 (640) | 0xA4A2 (42146) | Float | Unused |
| | User Event 4 | 0x0280 (640) | 0xA4A3 (42147) | Float | Unused |
| | User Event 5 | 0x0280 (640) | 0xA4A4 (42148) | Float | Unused |
| | User Event 6 | 0x0280 (640) | 0xA4A5 (42149) | Float | Unused |
| | User Event 7 | 0x0280 (640) | 0xA4A6 (42150) | Float | Unused |
| | User Event 8 | 0x0280 (640) | 0xA4A7 (42151) | Float | Unused |
| Program Error Code | State Error Code | 0x0280 (640) | 0xA4C0 (42176) | EC | Task |
| | Subroutine Error Code | 0x0280 (640) | 0xA4C1 (42177) | EC | Task |

| Event | Event Name | Enron Change Flags | System Command Code | As Found | As Left |
|---|---|--------------------|---------------------|----------|---------|
| Register Input Error | Program Fail—Invalid Tag | 0x0280 (640) | 0xA4E0 (42208) | Int32 | Unused |
| | Program Fail—Mismatch Attribute | 0x0280 (640) | 0xA4E1 (42209) | Int32 | Unused |
| | Program Fail—Tag In Fail/Disabled | 0x0280 (640) | 0xA4E2 (42210) | Int32 | Unused |
| Resource Mode Error | Flow Run 1 Accumulation Not Controlled by Scanner Logic | 0x0280 (640) | 0xA500 (42240) | Unused | Unused |
| | Flow Run 2 Accumulation Not Controlled by Scanner Logic | 0x0280 (640) | 0xA501 (42241) | Unused | Unused |
| | Flow Run 1 in Fail/Disabled | 0x0280 (640) | 0xA503 (42243) | Unused | Unused |
| | Flow Run 2 in Fail/Disabled | 0x0280 (640) | 0xA504 (42244) | Unused | Unused |
| | Triggered Archived Not Controlled by Scanner Logic | 0x0280 (640) | 0xA505 (42245) | Unused | Unused |
| | Flow Archives Not Controlled by Scanner Logic | 0x0280 (640) | 0xA506 (42246) | Unused | Unused |
| | Analog Output 1 Not Controlled by Scanner Logic | 0x0280 (640) | 0xA508 (42248) | Unused | Unused |
| | Analog Output 2 Not Controlled by Scanner Logic | 0x0280 (640) | 0xA509 (42249) | Unused | Unused |
| | Digital Valve 1 Not Controlled by Scanner Logic | 0x0280 (640) | 0xA50B (42251) | Unused | Unused |
| | Digital Output 1 Not Controlled by Scanner Logic | 0x0280 (640) | 0xA50C (42252) | Unused | Unused |
| | Digital Output 2 Not Controlled by Scanner Logic | 0x0280 (640) | 0xA50D (42253) | Unused | Unused |
| | Digital Output 3 Not Controlled by Scanner Logic | 0x0280 (640) | 0xA50E (42254) | Unused | Unused |
| | Digital Output 4 Not Controlled by Scanner Logic | 0x0280 (640) | 0xA50F (42255) | Unused | Unused |
| | Digital Output 5 Not Controlled by Scanner Logic | 0x0280 (640) | 0xA510 (42256) | Unused | Unused |
| | Digital Output 6 Not Controlled by Scanner Logic | 0x0280 (640) | 0xA511 (42257) | Unused | Unused |
| | Digital Input 1 Not Controlled by Scanner Logic | 0x0280 (640) | 0xA514 (42260) | Unused | Unused |
| | Digital Input 2 Not Controlled by Scanner Logic | 0x0280 (640) | 0xA515 (42261) | Unused | Unused |
| | Digital Input 3 Not Controlled by Scanner Logic | 0x0280 (640) | 0xA516 (42262) | Unused | Unused |
| | Digital Input 4 Not Controlled by Scanner Logic | 0x0280 (640) | 0xA517 (42263) | Unused | Unused |
| | Digital Input 5 Not Controlled by Scanner Logic | 0x0280 (640) | 0xA518 (42264) | Unused | Unused |
| Digital Input 6 Not Controlled by Scanner Logic | 0x0280 (640) | 0xA519 (42265) | Unused | Unused | |
| Local Display Not Controlled by Scanner Logic | 0x0280 (640) | 0xA51C (42268) | Unused | Unused | |

Section 2—16-Bit Modbus Protocol

Introduction

The communications protocol for the QRATE Scanner 3X00 integrated control flow computer is in accordance with Modicon, Inc. RTU Mode Modbus as described in *Modicon Modbus Protocol Reference Guide*, PI-MBUS-300 Rev. J, June 1996. All registers are implemented as 4X or holding registers. Reading of registers is implemented via function code 03H (Read Holding Registers). Writing to registers is implemented via function code 10H (Preset Multiple Registers). The instrument provides Enron Modbus compliant downloads for interval, daily and event records. For details on Enron Modbus, refer to *Specifications and Requirements for an Electronic Flow Measurement Remote Terminal Unit for Enron Corp.*, Dec. 5, 1994.

QRATE Scanner 3X00 Modbus Maps

QRATE Scanner 3X00 protocol is supported by three pre-defined register maps and a Sensia software application (ScanMap) for customizing maps to suit individual host requirements.

- Two Modbus maps are preloaded in the QRATE Scanner 3X00:
 - A 32-bit Enron Modbus map includes registers for the QRATE Scanner 3X00 and up to 20 slave devices. These registers are described in [Section 1—32-Bit Modbus Protocol \(Default\)](#), page 9. This map is also stored in ScanMap software (see [Table 2.1](#)).
 - A 16-bit Modbus map includes registers for the QRATE Scanner 3X00 and up to 20 slave devices, and presents values in a 16-bit standard Modbus format. These registers are described in this section. This map is also stored in ScanMap software (see [Table 2.1](#)).
- A third Modbus map—a version of the 32-bit Enron Modbus map without slave device registers (“base unit” map)—is available for download from Sensia’s ScanMap software. See [Table 2.1](#) for the template name. See [ScanMap Download](#) below for download from Sensia’s ScanMap software. See [Table 2.1—Predefined Modbus Maps](#) for the template name. See [ScanMap Download](#) below for download instructions.

Note

The Scanner 3300 does not support MVT (Static and Differential Pressure Registers).

Table 2.1—Predefined Modbus Maps

| Pre-Defined Modbus Map | QRATE Scanner 3X00 Registers | Enron History & Events | Slave Device Registers | Preloaded in QRATE Scanner 3X00 | ScanMap Template Name |
|------------------------------|------------------------------|------------------------|------------------------|---------------------------------|------------------------------------|
| 32-Bit Enron Modbus | ✓ | ✓ | ✓ | ✓ | S3X00_MAP_TEMPLATE_ENRON_DEFAULT |
| 16-Bit Modbus | ✓ | — | ✓ | ✓ | S3X00_MAP_TEMPLATE_MODBUS |
| Modified 32-Bit Enron Modbus | ✓ | ✓ | — | — | S3X00_MAP_TEMPLATE_ENRON_BASE_UNIT |

User-Defined Maps (ScanMap Software)

ScanMap software allows a user to create a custom Modbus register map by modifying the contents of a pre-defined map or using a blank template and selecting individual registers. ScanMap includes databases for all three of the pre-defined Modbus maps described above. Each can be used as-is, or modified with user-specified registers and units.

See [Table 2.1](#) for the names of available register map templates.

ScanMap Download

To download ScanMap and/or the ScanMap User Manual, visit Sensia's Measurement website at <https://sen-siaglobal.com/Measurement>, select **Flow Computing and Automation**, then **3000 series QRATE Scanner Integrated control flow computer**, and click the link for the ScanMap install or manual.

Standard Modbus Functions

The Modbus functions supported by the QRATE Scanner 3X00 are as follows:

| Function Code (Hex) | Description |
|---------------------|---------------------------|
| 03 | Read Holding Registers |
| 10 | Preset Multiple Registers |

Data Types

Various data types are implemented in the QRATE Scanner 3X00. The following table lists the formats and the numbers of bytes and registers associated with each type.

| Data Format | Data Type | Byte Count | Register Count |
|-------------|---------------------------|------------|----------------|
| 16-bit | Floating Point (FP) | 4 | 2 |
| | Unsigned Long (INT32) | 4 | 2 |
| | Packed ASCII (String [4]) | 4 | 2 |

The word ordering for multiple register data types, such as floating-point numbers or long integers, is for the most significant word to appear first in the message.

Packed ASCII

The Packed ASCII (PA) type contains four bytes that are four unsigned characters. Generally, multiple Packed ASCII types are arranged consecutively for implementing strings. For example, the Model Number is a string of 16 unsigned characters that is implemented as four Packed ASCII registers. Here is an example of a model number from the 16-bit internal Modbus map that contains the string "S3X00-G2."

| Register | Hexadecimal | ASCII Characters |
|----------|-------------|------------------|
| 1009 | 53 33 31 30 | S310 |
| 1011 | 30 2d 47 31 | 0-G1 |
| 1013 | 00 00 00 00 | <UNUSED> |
| 1015 | 00 00 00 00 | <UNUSED> |

Unused characters at the end of each string will report 0x00 hexadecimal.

Registers

Each register has an Access type: read-only or read-write, as described below.

| Access Type | Description |
|-----------------|----------------------------------|
| Read Only (RO) | Register Can Only Be Read |
| Read/Write (RW) | Register Can Be Read and Written |

The registers are grouped into Modbus map blocks according to function. The QRATE Scanner 3X00 contains the following map functions:

| Register Sections | Starting Address | Register Size |
|--|------------------|---------------|
| Command Registers | 71 | 16-Bit |
| System Information (General) | 1001 | 16-Bit |
| System Measurements | 1101 | 16-Bit |
| Status | 1501 | 16-Bit |
| Flow Run 1 Configuration (Integers) | 2001 | 16-Bit |
| Flow Run 2 Configuration (Integers) | 2101 | 16-Bit |
| Flow Run 1 Configuration (Floating Points) | 2201 | 16-Bit |
| Flow Run 2 Configuration (Floating Points) | 2301 | 16-Bit |
| Gas Stream 1 Configuration (Floating Points) | 2401 | 16-Bit |
| Gas Stream 2 Configuration (Floating Points) | 2501 | 16-Bit |
| Input/Output Configuration (Integers) | 2601 | 16-Bit |
| Input/Output Configuration (Floating Points) | 2701 | 16-Bit |
| Scanner Logic HMI User Fields | 3001 | 16-Bit |
| Scanner Logic HMI PID Fields | 3201 | 16-Bit |
| Archive 1: Daily Selections (16-bit) | 3500 | 16-Bit |
| Archive 1: Prev Daily Selections (16-bit) | 3650 | 16-Bit |
| Archive 1: Interval Selections (16-bit) | 3800 | 16-Bit |
| Archive 1: Prev Interval Selections (16-bit) | 3950 | 16-Bit |
| Archive 2: Daily Selections (16-bit) | 4100 | 16-Bit |
| Archive 2: Prev Daily Selections (16-bit) | 4250 | 16-Bit |
| Archive 2: Interval Selections (16-bit) | 4400 | 16-Bit |
| Archive 2: Prev Interval Selections (16-bit) | 4550 | 16-Bit |
| Triggered Selections (16-bit) | 4700 | 16-Bit |
| Prev Triggered Selections (16-bit) | 4800 | 16-Bit |
| Flow Run 1 Holding (Integers) | 5001 | 16-Bit |
| Flow Run 2 Holding (Integers) | 5101 | 16-Bit |
| Flow Run 1 Holding (Floating Points) | 5201 | 16-Bit |
| Flow Run 2 Holding (Floating Points) | 5601 | 16-Bit |
| Gas Stream 1 Holding (Floating Points) | 6001 | 16-Bit |
| Gas Stream 2 Holding (Floating Points) | 6101 | 16-Bit |
| Input/Output Holding (Integers) | 6201 | 16-Bit |
| Input/Output Holding (Floating Points) | 6301 | 16-Bit |
| Slave 1 Configuration (Floating Points) | 7001 | 16-Bit |
| Slave 2 Configuration (Floating Points) | 7051 | 16-Bit |
| Slave 3 Configuration (Floating Points) | 7101 | 16-Bit |
| Slave 4 Configuration (Floating Points) | 7151 | 16-Bit |
| Slave 5 Configuration (Floating Points) | 7201 | 16-Bit |
| Slave 6 Configuration (Floating Points) | 7251 | 16-Bit |

| Register Sections | Starting Address | Register Size |
|--|------------------|---------------|
| Slave 7 Configuration (Floating Points) | 7301 | 16-Bit |
| Slave 8 Configuration (Floating Points) | 7351 | 16-Bit |
| Slave 9 Configuration (Floating Points) | 7401 | 16-Bit |
| Slave 10 Configuration (Floating Points) | 7451 | 16-Bit |
| Slave 11 Configuration (Floating Points) | 7501 | 16-Bit |
| Slave 12 Configuration (Floating Points) | 7551 | 16-Bit |
| Slave 13 Configuration (Floating Points) | 7601 | 16-Bit |
| Slave 14 Configuration (Floating Points) | 7651 | 16-Bit |
| Slave 15 Configuration (Floating Points) | 7701 | 16-Bit |
| Slave 16 Configuration (Floating Points) | 7751 | 16-Bit |
| Slave 17 Configuration (Floating Points) | 7801 | 16-Bit |
| Slave 18 Configuration (Floating Points) | 7851 | 16-Bit |
| Slave 19 Configuration (Floating Points) | 7901 | 16-Bit |
| Slave 20 Configuration (Floating Points) | 7951 | 16-Bit |
| Slave 1 Holding (Integers) | 8001 | 16-Bit |
| Slave 2 Holding (Integers) | 8051 | 16-Bit |
| Slave 3 Holding (Integers) | 8101 | 16-Bit |
| Slave 4 Holding (Integers) | 8151 | 16-Bit |
| Slave 5 Holding (Integers) | 8201 | 16-Bit |
| Slave 6 Holding (Integers) | 8251 | 16-Bit |
| Slave 7 Holding (Integers) | 8301 | 16-Bit |
| Slave 8 Holding (Integers) | 8351 | 16-Bit |
| Slave 9 Holding (Integers) | 8401 | 16-Bit |
| Slave 10 Holding (Integers) | 8451 | 16-Bit |
| Slave 11 Holding (Integers) | 8501 | 16-Bit |
| Slave 12 Holding (Integers) | 8551 | 16-Bit |
| Slave 13 Holding (Integers) | 8601 | 16-Bit |
| Slave 14 Holding (Integers) | 8651 | 16-Bit |
| Slave 15 Holding (Integers) | 8701 | 16-Bit |
| Slave 16 Holding (Integers) | 8751 | 16-Bit |
| Slave 17 Holding (Integers) | 8801 | 16-Bit |
| Slave 18 Holding (Integers) | 8851 | 16-Bit |
| Slave 19 Holding (Integers) | 8901 | 16-Bit |
| Slave 20 Holding (Integers) | 8951 | 16-Bit |
| Slave 1 Holding (Floating Points) | 9001 | 16-Bit |
| Slave 2 Holding (Floating Points) | 9051 | 16-Bit |
| Slave 3 Holding (Floating Points) | 9101 | 16-Bit |
| Slave 4 Holding (Floating Points) | 9151 | 16-Bit |
| Slave 5 Holding (Floating Points) | 9201 | 16-Bit |
| Slave 6 Holding (Floating Points) | 9251 | 16-Bit |

| Register Sections | Starting Address | Register Size |
|------------------------------------|------------------|---------------|
| Slave 7 Holding (Floating Points) | 9301 | 16-Bit |
| Slave 8 Holding (Floating Points) | 9351 | 16-Bit |
| Slave 9 Holding (Floating Points) | 9401 | 16-Bit |
| Slave 10 Holding (Floating Points) | 9451 | 16-Bit |
| Slave 11 Holding (Floating Points) | 9501 | 16-Bit |
| Slave 12 Holding (Floating Points) | 9551 | 16-Bit |
| Slave 13 Holding (Floating Points) | 9601 | 16-Bit |
| Slave 14 Holding (Floating Points) | 9651 | 16-Bit |
| Slave 15 Holding (Floating Points) | 9701 | 16-Bit |
| Slave 16 Holding (Floating Points) | 9751 | 16-Bit |
| Slave 17 Holding (Floating Points) | 9801 | 16-Bit |
| Slave 18 Holding (Floating Points) | 9851 | 16-Bit |
| Slave 19 Holding (Floating Points) | 9901 | 16-Bit |
| Slave 20 Holding (Floating Points) | 9951 | 16-Bit |

Important All registers cited in this document refer to the address of the register that appears in the actual Modbus® message. For example, register 8000 has an address of 0x1F40 hexadecimal in the message.

Command Registers

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|------------------------------------|-----------|-------|--------|
| 71 | 0047 | Command Register: Argument 1 | INT32 | — | RW |
| 73 | 0049 | Command Register: Argument 2 | INT32 | — | RW |
| 75 | 004B | Command Register: Argument 3 | INT32 | — | RW |
| 77 | 004D | Command Register: Argument 4 | INT32 | — | RW |
| 79 | 004F | Command Register: Command Register | INT32 | — | RW |

Important The argument code must be written *before* the register code. If “—” is shown, write 0.

| Code | Description | Arg 1 | Arg 2 | Arg 3 | Arg 4 | Config Lock |
|--|--|--|--|-------|-------|-------------|
| <i>If Config Lock = Yes, an active configuration lock in the Scanner prevents changes to the register.</i> | | | | | | |
| 100100 | Clears the triggered archive pointers and indices | 0 = All 1 = Trigger Archive 1 | — | — | — | No |
| 100104 | Sets the slave device archive pointers on the QRATE Scanner 3X00 | 0 = All 1 = Slave Archive 1 2 = Slave Archive 2 (continues through Slave Archive 20) | 0 = Force Sync (stop downloads) 1 = Force Reload of all records | — | — | Yes |

| Code | Description | Arg 1 | Arg 2 | Arg 3 | Arg 4 | Config Lock |
|---|--|---|--|---------------|-------|-------------|
| <i>If Config Lock = Yes, an active configuration lock in the Scanner prevents changes to the register.</i> | | | | | | |
| 100333 | Resets the device (software reset) | — | — | — | — | No |
| 120000 | Sets the internal real-time clock | RealDate (0xYYYYMMDD) | RealTime (0xHHMMSS00) | — | — | No |
| | | 0x00000000 = Preserve Current Date | TIME = 0x00000000: Preserve Current Time TIME = 0x00000001: Set RTC to 00:00:00 | — | — | No |
| 120001 | Sets the date of the internal real-time clock. | Year = Gregorian year in decimal (i.e.: 2015) | Month = 1 to 12 (January to December) | Day = 1 to 31 | — | No |
| 120002 | Sets the time of the internal real-time clock. | Hour = 0 to 23 | Minute = 0 to 59 | Sec = 0 to 59 | — | No |
| 200001 | Sets the current local Display Group or advances to next Display Group. | 0 = Advance to Next Display Group 1 – 32 = Set Display Group | — | — | — | No |
| 500000 | Change the state of continuous triggering for Triggered Archive if Triggered Archive is in manual mode. The trigger interval is fixed at one second. | 0 = Stop triggering 1 = Start triggering | — | — | — | No |
| 500001 | Sets archive trigger once if triggered archive is in manual mode. | — | — | — | — | No |
| 500002 | Releases a triggered archive from a latched state. | — | — | — | — | No |
| 500050 | Publishes all triggered registers to the previous triggered registers. | — | — | — | — | No |
| 500100 | Creates archive partial records. | — | — | — | — | No |
| 500300 | Clears the unacknowledged device alarms. Does not unlatch DIO. | — | — | — | — | No |
| 500500 | Bit mask uses bits to identify which DIO blocks to clear. | Bit Mask: XXXX XXXX XX65 4321 0 = Do Not Unlatch DIO 1 = Unlatch DIO | — | — | — | No |
| 500600 | Enables wireless manager. | — | — | — | — | No |

| Code | Description | Arg 1 | Arg 2 | Arg 3 | Arg 4 | Config Lock |
|--|--|--|--------------------------------------|-------|-------|-------------|
| <i>If Config Lock = Yes, an active configuration lock in the Scanner prevents changes to the register.</i> | | | | | | |
| 500601 | Disables wireless manager. | — | — | — | — | No |
| 500700 | Gets the Wireless Mesh path information for all connected motes. | — | — | — | — | No |
| 501000 | Clears statistic information for a target port. | 0 = All 1 = Serial Port 1 2 = Serial Port 2 3 = Serial Port 3 21 = TCP 1 22 = TCP 2 | — | — | — | No |
| 600000 | Triggers the creation of the Snapshot file. | 0 = All 1 = Flow Run 1 2 = Flow Run 2 | — | — | — | No |
| 600300 | Stores the current Flow Run Factor Calibration Map Data as a new calibration. Web interface should be used to configure the calibration type. New factors must be written (per the Linear Calibration Factor procedure below) before sending this command. | 1 = Flow Run 1 2 = Flow Run 2 | — | — | — | Yes |
| 600302 | Stores the current Input K-Factor Calibration Map Data as a new calibration. Web interface should be used to configure the calibration type. New factors must be written (per the Linear Calibration Factor procedure below) before sending this command. | 1 = Pulse Input 1 2 = Pulse Input 2 3 = Pulse Input 3 | — | — | — | Yes |
| 601000 | Programs the operating mode for a PID controller. The analog output must be in PID mode for this command to take effect. | 1 = Analog Output 1 2 = Analog Output 2 | 0 = Automatic 1 = Manual Override | — | — | No |

| Code | Description | Arg 1 | Arg 2 | Arg 3 | Arg 4 | Config Lock |
|---|---|--|---|-------|-------|-------------|
| <i>If Config Lock = Yes, an active configuration lock in the Scanner prevents changes to the register.</i> | | | | | | |
| 601001 | Changes the operating mode for a PID Controller to manual and sets an override value. The target analog output must be in PID mode for this command to take effect. | 1 = Analog Output 1 2 = Analog Output 2 | Override: 0.0 to 1.0 written as 32-bit floating point. <i>For example: To apply a 0.75 override, convert 0.75 to a 32-bit floating point (0x3F400000), write the value to Argument 2, and write command.</i> | — | — | No |
| 601002 | Programs the operating mode for a PID Controller to automatic and sets an override value. The target analog output must be in PID mode for this command to take effect. | 1 = Analog Output 1 2 = Analog Output 2 | Setpoint: 32-bit floating point value in the user-selected unit for the measurement category of the control variable. <i>For example: To apply a 123.45 set point, convert 123.45 to a 32-bit floating point (0x42f6e666), write the value to Argument 2, and write command.</i> | — | — | No |

| Code | Description | Arg 1 | Arg 2 | Arg 3 | Arg 4 | Config Lock |
|---|--|---------------------------------------|--|-------|-------|-------------|
| <i>If Config Lock = Yes, an active configuration lock in the Scanner prevents changes to the register.</i> | | | | | | |
| 610000 | Sends the selected Data Set to the selected Slave Device. This will cause the registers within the QRATE Scanner 3X00 to be written to the configuration of the connected slave. The configuration change may take up to 15 seconds to complete. | 0 = None 1 - 20 = Slave1 - Slave20 | <p><i>To synchronize a slave configuration change made in the QRATE Scanner 3X00 with the corresponding slave device, write the desired value from the list below to Argument 2, and write command. To confirm the change is accepted by the slave device, read register 1611.</i></p> <p>0 = None 1 = Device Name 2 = Archive Configuration 3 = Flow Run Configuration 4 = Flow Run Maintenance 5 = Gas Composition 6 = Cone Calibration 7 = Turbine Input 1 Configuration 8 = Turbine Input 1 K-Factor Calibration 9 = Turbine Input 2 Configuration 10 = Turbine Input 2 K-Factor Calibration 11 = Diff Pressure Configuration 12 = Diff Pressure Calibration 13 = Static Pressure Configuration 14 = Static Pressure Calibration 15 = Temperature Configuration 16 = Temperature Calibration 17 = Analog Input 1 Configuration / PID Controller Settings 18 = Analog Input 1 Calibration 19 = Analog Input 2 Configuration 20 = Analog Input 2 Calibration</p> | — | — | Yes |

| Code | Description | Arg 1 | Arg 2 | Arg 3 | Arg 4 | Config Lock |
|--|---|--|-------|-------|-------|-------------|
| <i>If Config Lock = Yes, an active configuration lock in the Scanner prevents changes to the register.</i> | | | | | | |
| 700000 | Loads factory defaults for all configurations except network settings. | — | — | — | — | Yes |
| 700001 | Loads factory defaults for all configurations except network settings and communication port settings | — | — | — | — | Yes |
| 700070 | Resets all grand totals | — | — | — | — | No |
| 700071 | Resets flow run grand totals | 0 = All 1 = Flow Run 1 2 = Flow Run 2 | — | — | — | No |
| 700072 | Resets pulse input grand totals | 0 = All 1 = Pulse Input 1 2 = Pulse Input 2 3 = Pulse Input 3 | — | — | — | No |
| 777333 | Tests the control code and returns a response code of “33337777.” | — | — | — | — | Yes |
| 800000 | Restarts all or selected Scanner Logic tasks. | 0 = All 1 – 4 = Task 1 to Task 4 | — | — | — | No |
| 800001 | Aborts all Scanner Logic tasks and enters abort state. Emergency Stop. | — | — | — | — | No |
| 800008 | Clears the unacknowledged Scanner Logic alarms register. Does not unlatch DIO. | — | — | — | — | No |

Changing a Linear Calibration Factor

To update the linear calibration factor, write the register in following order:

- Write the Nominal Factor value for the desired calibration in 32-bit floating point format:
 - Pulse Input 1: Calibration: Nominal K-Factor, Address 2723
 - Pulse Input 2: Calibration: Nominal K-Factor, Address 2725
 - Pulse Input 3: Calibration: Nominal K-Factor, Address 2727
 - Flow Run 1: Calibration: Nominal Factor, Address 2235
 - Flow Run 2: Calibration: Nominal Factor, Address 2335
- Write the Command Arguments 1 through 4 (Address 71 through 74) to choose the input to be updated.
- Write the code for Command Register (Address 75) in unsigned long format. The code is 600300 for flow runs and 600302 for pulse inputs.

System Information (General)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|-------------------------------|-----------|--------|--------|
| 1001 | 03E9 | System: Firmware Version | FP | — | RO |
| 1003 | 03EB | System: Boot Loader Version | FP | — | RO |
| 1005 | 03ED | System: LEP Firmware Version | FP | — | RO |
| 1007 | 03EF | System: UIC Firmware Version | FP | — | RO |
| 1009 | 03F1 | System: Model Number S 1 | String[4] | — | RO |
| 1011 | 03F3 | System: Model Number S 2 | String[4] | — | RO |
| 1013 | 03F5 | System: Model Number S 3 | String[4] | — | RO |
| 1015 | 03F7 | System: Model Number S 4 | String[4] | — | RO |
| 1017 | 03F9 | System: Serial Number 1 | INT32 | — | RO |
| 1019 | 03FB | System: Serial Number 2 | INT32 | — | RO |
| 1021 | 03FD | System: Manufacturing Date | FP | MMDDYY | RO |
| 1023 | 03FF | System: Manufacturing Time | FP | HHMMSS | RO |
| 1025 | 0401 | System: Sale Date | FP | MMDDYY | RO |
| 1027 | 0403 | System: Sale Time | FP | HHMMSS | RO |
| 1029 | 0405 | System: MVT Serial Number S 1 | String[4] | — | RO |
| 1031 | 0407 | System: MVT Serial Number S 2 | String[4] | — | RO |
| 1033 | 0409 | System: MVT Serial Number S 3 | String[4] | — | RO |
| 1035 | 040B | System: MVT Serial Number S 4 | String[4] | — | RO |
| 1037 | 040D | System: Archive Contract Hour | INT32 | — | RW |

Model Number

The Model Number is a read-only parameter set by the factory, stored in four 16-bit registers and used to identify a QRATE Scanner 3X00 device. See [Packed ASCII, page 136](#), for details about decoding packed ASCII values.

Firmware Version

The Firmware Version numbers are read-only values set by the factory and stored in the IEEE 754 single precision floating point format. For example the firmware register number is read as 0x3F853F7D in hexadecimal. This represents the version as 1.041.

Manufacture Date/Sales Date

These date and time parameters are read-only values set at the factory and stored in the IEEE 754 single precision floating point format in four 16-bit registers. Only the integer portion of the floating point value is used to represent the date or time. The first two registers define the date in MMDDYY format. The second two registers define the time in HHMMSS format.

| Parameter | Tag ID |
|------------------|--|
| Manufacture Date | m32_MM_MC_SystemInfo_ManufacturingDate |
| Manufacture Time | m32_MM_MC_SystemInfo_ManufacturingTime |
| Sales Date | m32_MM_MC_SystemInfo_SalesDate |
| Sales Time | m32_MM_MC_SystemInfo_SalesTime |

MVT Serial Number

The MVT serial number is stored as a Packed ASCII number in eight 16-bit registers used to identify a MVT device. See [Packed ASCII, page 136](#), for details about decoding packed ASCII values.

System Measurements

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------|--------|
| 1101 | 044D | Current Time: Date | FP | MMDDYY | RO |
| 1103 | 044F | Current Time: Time | FP | HHMMSS | RO |
| 1105 | 0451 | System: MVT Static Pressure Range | FP | psig | RO |
| 1107 | 0453 | System: MVT Differential Pressure Range | FP | "H2O@68°F | RO |
| 1109 | 0455 | System Measurements: System Voltage | FP | V | RO |
| 1111 | 0457 | System Measurements: System Current | FP | mA | RO |
| 1113 | 0459 | System Measurements: External Voltage | FP | V | RO |
| 1115 | 045B | System Measurements: Battery 1 Voltage | FP | V | RO |
| 1117 | 045D | System Measurements: Battery 2 Voltage | FP | V | RO |
| 1119 | 045F | System Measurements: Transmitter Voltage | FP | V | RO |
| 1121 | 0461 | System Measurements: Transmitter Current | FP | mA | RO |
| 1123 | 0463 | System Measurements: CPU Voltage | FP | V | RO |
| 1125 | 0465 | System Measurements: Analog Voltage | FP | V | RO |
| 1127 | 0467 | System Measurements: Clock Battery Voltage | FP | V | RO |

Real Time

This block of four 16-bit registers [two registers for date (MMDDYY) and two registers for time (HHMMSS)] is used to set the instrument's internal clock. To set the time, write all registers in a single message. See [Command Registers, page 139](#), for a list of commands.

Date and time can also be read in the holding register groups as floating-point data. These read-only values are set at the factory and stored in the IEEE 754 single precision floating point format in four 16-bit registers. Only the integer portion of the floating point value is used to represent the date or time. The first two registers define the date in MMDDYY format. The second two registers define the time in HHMMSS format.

| Parameter | Tag ID |
|--------------------|----------------------------|
| Current Time: Date | m32_RM_MC_CurrentTime_Date |
| Current Time: Time | m32_RM_MC_CurrentTime_Time |

Status

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|----------------------------------|-----------|-------|--------|
| 1501 | 05DD | Alarm Status: Alarm Check Status | INT32 | — | RO |
| 1503 | 05DF | Alarm Status: Alarm High | INT32 | — | RO |
| 1505 | 05E1 | Alarm Status: Alarm Low | INT32 | — | RO |
| 1507 | 05E3 | Alarm Status: Alarm High Or Low | INT32 | — | RO |
| 1509 | 05E5 | Alarm Status: Unacknowledged | INT32 | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 1511 | 05E7 | Alarm Status: Daily Alarm | INT32 | — | RO |
| 1513 | 05E9 | Alarm Status: Interval Alarm | INT32 | — | RO |
| 1515 | 05EB | Alarm Status: Polling Alarm | INT32 | — | RO |
| 1517 | 05ED | Alarm Status: Previous Daily | INT32 | — | RO |
| 1519 | 05EF | Alarm Status: Previous Interval | INT32 | — | RO |
| 1521 | 05F1 | Alarm Status: Previous Polling | INT32 | — | RO |
| 1523 | 05F3 | Differential Pressure: Holding: Status | INT32 | — | RO |
| 1525 | 05F5 | Static Pressure: Holding: Status | INT32 | — | RO |
| 1527 | 05F7 | RTD1: Holding: Status | INT32 | — | RO |
| 1529 | 05F9 | RTD2: Holding: Status | INT32 | — | RO |
| 1531 | 05FB | Analog Input 1: Holding: Status | INT32 | — | RO |
| 1533 | 05FD | Analog Input 2: Holding: Status | INT32 | — | RO |
| 1535 | 05FF | Analog Input 3: Holding: Status | INT32 | — | RO |
| 1537 | 0601 | Analog Input 4: Holding: Status | INT32 | — | RO |
| 1539 | 0603 | Pulse Input 1: Holding: Status | INT32 | — | RO |
| 1541 | 0605 | Pulse Input 2: Holding: Status | INT32 | — | RO |
| 1543 | 0607 | Pulse Input 3: Holding: Status | INT32 | — | RO |
| 1545 | 0609 | Flow Run 1: HAccum: Flow Run Status | INT32 | — | RO |
| 1547 | 060B | Flow Run 1: HFluid: Status | INT32 | — | RO |
| 1549 | 060D | Flow Run 1: HFlow: Status | INT32 | — | RO |
| 1551 | 060F | Flow Run 2: HAccum: Flow Run Status | INT32 | — | RO |
| 1553 | 0611 | Flow Run 2: HFluid: Status | INT32 | — | RO |
| 1555 | 0613 | Flow Run 2: HFlow: Status | INT32 | — | RO |
| 1557 | 0615 | Gas Stream 1: Holding: Status | INT32 | — | RO |
| 1559 | 0617 | Gas Stream 2: Holding: Status | INT32 | — | RO |
| 1561 | 0619 | Analog Output 1 PID: Holding: Status | INT32 | — | RO |
| 1563 | 061B | Analog Output 2 PID: Holding: Status | INT32 | — | RO |
| 1565 | 061D | Slave Device 1: Status: Device Com Status | INT32 | — | RO |
| 1567 | 061F | Slave Device 2: Status: Device Com Status | INT32 | — | RO |
| 1569 | 0621 | Slave Device 3: Status: Device Com Status | INT32 | — | RO |
| 1571 | 0623 | Slave Device 4: Status: Device Com Status | INT32 | — | RO |
| 1573 | 0625 | Slave Device 5: Status: Device Com Status | INT32 | — | RO |
| 1575 | 0627 | Slave Device 6: Status: Device Com Status | INT32 | — | RO |
| 1577 | 0629 | Slave Device 7: Status: Device Com Status | INT32 | — | RO |
| 1579 | 062B | Slave Device 8: Status: Device Com Status | INT32 | — | RO |
| 1581 | 062D | Slave Device 9: Status: Device Com Status | INT32 | — | RO |
| 1583 | 062F | Slave Device 10: Status: Device Com Status | INT32 | — | RO |
| 1585 | 0631 | Slave Device 11: Status: Device Com Status | INT32 | — | RO |
| 1587 | 0633 | Slave Device 12: Status: Device Com Status | INT32 | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-------|--------|
| 1589 | 0635 | Slave Device 13: Status: Device Com Status | INT32 | — | RO |
| 1591 | 0637 | Slave Device 14: Status: Device Com Status | INT32 | — | RO |
| 1593 | 0639 | Slave Device 15: Status: Device Com Status | INT32 | — | RO |
| 1595 | 063B | Slave Device 16: Status: Device Com Status | INT32 | — | RO |
| 1597 | 063D | Slave Device 17: Status: Device Com Status | INT32 | — | RO |
| 1599 | 063F | Slave Device 18: Status: Device Com Status | INT32 | — | RO |
| 1601 | 0641 | Slave Device 19: Status: Device Com Status | INT32 | — | RO |
| 1603 | 0643 | Slave Device 20: Status: Device Com Status | INT32 | — | RO |
| 1605 | 0645 | Slave Device Status: Slave Configured | INT32 | — | RO |
| 1607 | 0647 | Slave Device Status: Slave Connected | INT32 | — | RO |
| 1609 | 0649 | Slave Device Status: Slave Config Sync | INT32 | — | RO |
| 1611 | 064B | Slave Device Status: Slave Accept Sync | INT32 | — | RO |
| 1613 | 064D | Slave Device Status: Slaves Reporting User Alarms | INT32 | — | RO |
| 1615 | 064F | Slave Device Status: Configured Slaves Lost | INT32 | — | RO |
| 1617 | 0651 | Slave Device Status: Slaves Reporting Errors | INT32 | — | RO |

Alarm Status Definitions

| Bit Position | Alarm Enabled When Bit=1 | Bit Position | Alarm Enabled When Bit=1 |
|--------------|--------------------------|--------------|--------------------------|
| 16 | Alarm 17 | 0 | Alarm 1 |
| 17 | Alarm 18 | 1 | Alarm 2 |
| 18 | Alarm 19 | 2 | Alarm 3 |
| 19 | Alarm 20 | 3 | Alarm 4 |
| 20 | Alarm 21 | 4 | Alarm 5 |
| 21 | Alarm 22 | 5 | Alarm 6 |
| 22 | Alarm 23 | 6 | Alarm 7 |
| 23 | Alarm 24 | 7 | Alarm 8 |
| 24 | Alarm 25 | 8 | Alarm 9 |
| 25 | Alarm 26 | 9 | Alarm 10 |
| 26 | Alarm 27 | 10 | Alarm 11 |
| 27 | Alarm 28 | 11 | Alarm 12 |
| 28 | Alarm 29 | 12 | Alarm 13 |
| 29 | Alarm 30 | 13 | Alarm 14 |
| 30 | Alarm 31 | 14 | Alarm 15 |
| 31 | Alarm 32 | 15 | Alarm 16 |

Input Status Definitions

| Bit Position | Status When Bit=1 |
|--------------|--------------------------------------|
| 0 | Input Disabled |
| 1 | High |
| 2 | High High |
| 3 | Low |
| 4 | Low Low |
| 5 | Fail |
| 6 | Overridden |
| 7 | Maintenance |
| 8 | Data Input Change |
| 9 | Input Invalid |
| 10 | Input is Integer |
| 11 | Input is Data Type Mismatch |
| 12 | Invalid K-Factor |
| 13 | Low Input Cutoff |
| 14 | High Range Overridden |
| 15 | Override Input Invalid |
| 16 | Override Input is Integer |
| 17 | Override Input is Data Type Mismatch |
| 18 | Override Input Category Mismatch |
| 19 | Low Cutoff Above High Range |

Generally, the QRATE Scanner 3X00 low, high, low-low, and high-high conditions for inputs are defined as shown in the following table.

| Status | Description |
|-----------|--|
| Low | Below transducer range by 0.5% of span |
| Low Low | Below transducer range by 20% of span |
| High | Above transducer range by any amount |
| High High | Above transducer range by 20% of span |

Alarm records are created when the device goes into and out of alarm condition. For example, an alarm is created when a damped input is greater than the upper end of the transducer range. The alarm will not clear until the damped value is less than 0.5% of span below the upper limit of the transducer range. A damped value is altered by field calibration but has not been altered by the low input cutoff value.

Fail status results when any of the following fail conditions exist.

| Input | Fail Condition |
|------------|--|
| RTD | Open circuit or short circuit is detected |
| 1 to 5 VDC | Input less than 125 mV |
| 4 to 20 mA | Input less than 0.5 mA |
| MVT | Serial number is not read at boot-up |
| | Temperature Sensor (TSEN): < -100°C or > 200°C |
| | Static Pressure: < -10 psi or > 10000 psi |
| | Differential Pressure: < -2000 in H2O or > 2000 in H2O |

Flow Run Status Definitions

| Bit Position | Flow Run Status When Bit=1 |
|--------------|--|
| 0 | Disabled |
| 1 | High |
| 2 | High High |
| 3 | Low |
| 4 | Low Low |
| 5 | Fail |
| 6 | Overridden |
| 7 | Maintenance |
| 8 | Data Input Change |
| 9 | Static Pressure Input Invalid |
| 10 | Static Pressure is Input Fail |
| 11 | Static Pressure is Category Mismatch |
| 12 | Process Temperature Input Invalid |
| 13 | Process Temperature is Input Fail |
| 14 | Process Temperature is Category Mismatch |
| 15 | Differential Pressure Input Invalid |
| 16 | Differential Pressure Input Fail |
| 17 | Differential Pressure is Category Mismatch |
| 18 | Square Root of Differential Pressure Input Invalid |
| 19 | Square Root of Differential Pressure is Input Fail |
| 20 | Square Root of Differential Pressure Category Mismatch |
| 21 | Uncorrected Accumulation Input Invalid |
| 22 | Uncorrected Accumulation Input Fail |
| 23 | Uncorrected Accumulation is Category Mismatch |
| 24 | Gas Fraction Input Input Fail |
| 25 | Oil Fraction Input Input Fail |
| 26 – 27 | — |
| 28 | Flow Calculation |
| 29 | Fluid Calculation |
| 30 | Flowing |
| 31 | Calculation Change |

Fluid Status Definitions

| Bit Position | Fluid Status When Bit=1 |
|--------------|--------------------------------------|
| 0 | Fluid Change |
| 1 | No Temperature Change |
| 2 | No Pressure Change |
| 3 | Ideal Properties Incorrect |
| 4 | Molar Mass Incorrect |
| 5 | Ideal Absolute Viscosity Incorrect |
| 6 | Base Density Incorrect |
| 7 | Gas to Liquid Volume Ratio Incorrect |
| 8 | Liquid Oil Mass Fraction Incorrect |
| 9 | Normal Viscosity Incorrect |
| 10 | Flowing Density Incorrect |
| 11 | Flowing Viscosity Incorrect |
| 12 | — |
| 13 | Isentropic Exponent Incorrect |
| 14 | Joule Thompson Coefficient Incorrect |
| 15 | Enthalphy Incorrect |
| 16 | Molar Heating Value Incorrect |
| 17 | Mass Heating Value Incorrect |
| 18 | Volume Heating Value Incorrect |
| 19 | Phase Is Liquid |
| 20 | Liquid Oil Density Incorrect |
| 21 | Liquid Water Density Incorrect |
| 22 | BS&W Value Incorrect |
| 23 | — |
| 24 | Temperature Range Error |
| 25 | Pressure Range Error |
| 26 | Thermal Expansion Range Error |
| 27 | Density Range Error |
| 28 – 29 | — |
| 30 | Non-Fatal Convergence Error |
| 31 | Configuration Error |

Flow Status Definitions

| Bit Position | Flow Status When Bit=1 |
|--------------|---|
| 0 | Square Root Differential Pressure Incorrect |
| 1 | Stability Warning |
| 2 | D Material Invalid |
| 3 | D Alpha Override Invalid |
| 4 | D Corrected Diameter Invalid |

| Bit Position | Flow Status When Bit=1 |
|--------------|---------------------------------------|
| 5 | d Material Invalid |
| 6 | d Alpha Override Invalid |
| 7 | d Corrected Diameter Invalid |
| 8 | Reference Beta Ratio Invalid |
| 9 | Flowing Beta Ratio Invalid |
| 10 | Gas Expansion Factor Invalid |
| 11 | Meter Type Invalid |
| 12 | D Reference Diameter Invalid |
| 13 | d Reference Diameter Invalid |
| 14 | d > D |
| 15 | Incorrect Fluid Type |
| 16 | Reynold's Number Low Warning |
| 17 | Reynold's Number High Warning |
| 18 | Beta Low Warning |
| 19 | Beta High Warning |
| 20 | Multiphase Root Search Failure |
| 21 | Multiphase Non-fatal Convergence Fail |

Gas Stream Holding Status Definitions

| Bit Position | Gas Stream Holding Status When Bit=1 |
|--------------|--------------------------------------|
| 16 | Molecule Entry 12 Range Fail |
| 17 | Molecule Entry 13 Range Fail |
| 18 | Molecule Entry 14 Range Fail |
| 19 | Molecule Entry 15 Range Fail |
| 20 | Molecule Entry 16 Range Fail |
| 21 | Fractional Sum Test 1 Fail |
| 22 | Fractional Sum Test 2 Fail |
| 23 | Fractional Sum Test 3 Fail |
| 24 | Fractional Sum Test 4 Fail |
| 25 | Input Stale Fail |
| 26 | — |
| 27 | — |
| 28 | — |
| 29 | — |
| 30 | Input Failed Tests |
| 31 | Gas Stream Alarm |

| Bit Position | Gas Stream Holding Status When Bit=1 |
|--------------|---|
| 0 | Overridden (flow run uses static composition) |
| 1 | Gas Chromatograph Alarm |
| 2 | Static Due to Fail |
| 3 | — |
| 4 | — |
| 5 | Molecule Entry 1 Range Fail |
| 6 | Molecule Entry 2 Range Fail |
| 7 | Molecule Entry 3 Range Fail |
| 8 | Molecule Entry 4 Range Fail |
| 9 | Molecule Entry 5 Range Fail |
| 10 | Molecule Entry 6 Range Fail |
| 11 | Molecule Entry 7 Range Fail |
| 12 | Molecule Entry 8 Range Fail |
| 13 | Molecule Entry 9 Range Fail |
| 14 | Molecule Entry 10 Range Fail |
| 15 | Mol Entry 11 Range Fail |

PID Holding Status Definitions

| Bit Position | Status When Bit=1 |
|--------------|--|
| 0 | Disabled |
| 1 | Process Value Invalid |
| 2 | Process Value is Integer |
| 3 | Process Value Data Type Mismatch |
| 4 | Static Pressure Invalid |
| 5 | Static Pressure is Integer |
| 6 | Static Pressure Data Type Mismatch |
| 7 | Track Invalid |
| 8 | Track is Integer |
| 9 | Track Data Type Mismatch |
| 10 | Test Value Invalid |
| 11 | Test Value is Integer |
| 12 | Test Data Type Mismatch |
| 13 | Signal Select Active |
| 14 | Manual Override |
| 15 | Calculation Error |
| 16 | Automatic Period Tracking |
| 17 | Process Value Tag Category Change Error |
| 18 | Process Value Fail |
| 19 | Process Value Disabled |
| 20 | Process Value Tolerance |
| 21 | Process Value Deadband |
| 22 | Setpoint Value Tag Category Change Error |
| 23 | Setpoint Value Fail |
| 24 | Setpoint Value Disabled |
| 25 – 28 | — |
| 29 | Tolerance Lock |
| 30 | Maintenance |
| 31 | Fail |

Slave Device Comm Status Definitions

| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
|-----|---|---|---|---|---|---|---|-----|
| ACT | — | | | | | | | OPR |

| Value | ACT: Archive Active |
|-------|--|
| 0 | Slave Device Archive Parameters Not Received |
| 1 | Slave Device Archive Parameters Received |
| Value | OPR: Slave Operational |
| 0 | Slave Not Responding |
| 1 | Slave Responding |

Slave Device Status Definitions (Registers 1605 through 1617)

| Bit Position | Alarm Enabled When Bit=1 | Bit Position | Alarm Enabled When Bit=1 |
|--------------|--------------------------|--------------|--------------------------|
| 0 | Slave Device 1 | 10 | Slave Device 11 |
| 1 | Slave Device 2 | 11 | Slave Device 12 |
| 2 | Slave Device 3 | 12 | Slave Device 13 |
| 3 | Slave Device 4 | 13 | Slave Device 14 |
| 4 | Slave Device 5 | 14 | Slave Device 15 |
| 5 | Slave Device 6 | 15 | Slave Device 16 |
| 6 | Slave Device 7 | 16 | Slave Device 17 |
| 7 | Slave Device 8 | 17 | Slave Device 18 |
| 8 | Slave Device 9 | 18 | Slave Device 19 |
| 9 | Slave Device 10 | 19 | Slave Device 20 |

Flow Run 1 Configuration (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 2001 | 07D1 | Flow Run 1: Config: Flow Direction | INT32 | — | RW |
| 2003 | 07D3 | Flow Run 1: CFlow: Meter Tube Material | INT32 | — | RW |
| 2005 | 07D5 | Flow Run 1: CFlow: Orifice Material | INT32 | — | RW |
| 2007 | 07D7 | Flow Run 1: CFlow: Tap Type | INT32 | — | RW |
| 2009 | 07D9 | Flow Run 1: CFlow: Tap Location | INT32 | — | RW |

Flow Run 2 Configuration (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 2101 | 0835 | Flow Run 2: Config: Flow Direction | INT32 | — | RW |
| 2103 | 0837 | Flow Run 2: CFlow: Meter Tube Material | INT32 | — | RW |
| 2105 | 0839 | Flow Run 2: CFlow: Orifice Material | INT32 | — | RW |
| 2107 | 083B | Flow Run 2: CFlow: Tap Type | INT32 | — | RW |
| 2109 | 083D | Flow Run 2: CFlow: Tap Location | INT32 | — | RW |

To decode meter tube material, orifice material, tap type, and tap location, refer to [Flow Run 1 Holding \(Integers\)](#), page 177 and [Flow Run 2 Holding \(Integers\)](#), page 178.

To decode flow direction, refer to [Flow Direction](#), page 178.

Flow Run 1 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-------|--------|
| 2201 | 0899 | Flow Run 1: CFluid: Atmospheric Pressure | FP | psia | RW |
| 2203 | 089B | Flow Run 1: CFluid: Gross Carbon Dioxide | FP | — | RW |
| 2205 | 089D | Flow Run 1: CFluid: Gross Nitrogen | FP | — | RW |
| 2207 | 089F | Flow Run 1: CFluid: Gross Carbon Monoxide | FP | — | RW |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-------|--------|
| 2209 | 08A1 | Flow Run 1: CFluid: Gross Hydrogen | FP | — | RW |
| 2211 | 08A3 | Flow Run 1: CFluid: Gross Specific Gravity | FP | — | RW |
| 2213 | 08A5 | Flow Run 1: CFluid: Liquid Oil Base API Gravity | FP | — | RW |
| 2215 | 08A7 | Flow Run 1: CFluid: Liquid Shrinkage Factor | FP | — | RW |
| 2217 | 08A9 | Flow Run 1: CFluid: Liquid BSW | FP | % | RW |
| 2219 | 08AB | Flow Run 1: CFlow: Reference Meter Tube Inside Diameter | FP | inch | RW |
| 2221 | 08AD | Flow Run 1: CFlow: Reference Meter Tube Temperature | FP | °F | RW |
| 2223 | 08AF | Flow Run 1: CFlow: Meter Tube Alpha Override | FP | 1/°F | RW |
| 2225 | 08B1 | Flow Run 1: CFlow: Reference Orifice Diameter | FP | inch | RW |
| 2227 | 08B3 | Flow Run 1: CFlow: Reference Orifice Temperature | FP | °F | RW |
| 2229 | 08B5 | Flow Run 1: CFlow: Orifice Alpha Override | FP | 1/°F | RW |
| 2231 | 08B7 | Flow Run 1: CFlow: Reference Weep Hole Diameter | FP | inch | RW |
| 2233 | 08B9 | Flow Run 1: CFlow: Reference Beta Ratio Override | FP | — | RW |
| 2235 | 08BB | Flow Run 1: Calibration: Nominal Factor | FP | — | RW |
| *2237 | 08BD | Flow Run 1: Calibration: Linear Meter Factor Out Fact 1 | FP | — | RW |

* Not support under Scanner 3100 Measurement Canada Firmware

Flow Run 2 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-------|--------|
| 2301 | 08FD | Flow Run 2: CFluid: Atmospheric Pressure | FP | psia | RW |
| 2303 | 08FF | Flow Run 2: CFluid: Gross Carbon Dioxide | FP | — | RW |
| 2305 | 0901 | Flow Run 2: CFluid: Gross Nitrogen | FP | — | RW |
| 2307 | 0903 | Flow Run 2: CFluid: Gross Carbon Monoxide | FP | — | RW |
| 2309 | 0905 | Flow Run 2: CFluid: Gross Hydrogen | FP | — | RW |
| 2311 | 0907 | Flow Run 2: CFluid: Gross Specific Gravity | FP | — | RW |
| 2313 | 0909 | Flow Run 2: CFluid: Liquid Oil Base API Gravity | FP | — | RW |
| 2315 | 090B | Flow Run 2: CFluid: Liquid Shrinkage Factor | FP | — | RW |
| 2317 | 090D | Flow Run 2: CFluid: Liquid BSW | FP | % | RW |
| 2319 | 090F | Flow Run 2: CFlow: Reference Meter Tube Inside Diameter | FP | inch | RW |
| 2321 | 0911 | Flow Run 2: CFlow: Reference Meter Tube Temperature | FP | °F | RW |
| 2323 | 0913 | Flow Run 2: CFlow: Meter Tube Alpha Override | FP | 1/°F | RW |
| 2325 | 0915 | Flow Run 2: CFlow: Reference Orifice Diameter | FP | inch | RW |
| 2327 | 0917 | Flow Run 2: CFlow: Reference Orifice Temperature | FP | °F | RW |
| 2329 | 0919 | Flow Run 2: CFlow: Orifice Alpha Override | FP | 1/°F | RW |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-------|--------|
| 2331 | 091B | Flow Run 2: CFlow: Reference Weep Hole Diameter | FP | inch | RW |
| 2333 | 091D | Flow Run 2: CFlow: Reference Beta Ratio Override | FP | — | RW |
| 2335 | 091F | Flow Run 2: Calibration: Nominal Factor | FP | — | RW |
| 2337 | 0921 | Flow Run 2: Calibration: Linear Meter Factor Out Fact 1 | FP | — | RW |

* Not support under Scanner 3100 Measurement Canada Firmware

Gas Stream 1 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 2401 | 0961 | Gas Stream 1: Config Mixture: Methane | FP | — | RW |
| 2403 | 0963 | Gas Stream 1: Config Mixture: Nitrogen | FP | — | RW |
| 2405 | 0965 | Gas Stream 1: Config Mixture: Carbon Dioxide | FP | — | RW |
| 2407 | 0967 | Gas Stream 1: Config Mixture: Ethane | FP | — | RW |
| 2409 | 0969 | Gas Stream 1: Config Mixture: Propane | FP | — | RW |
| 2411 | 096B | Gas Stream 1: Config Mixture: Water | FP | — | RW |
| 2413 | 096D | Gas Stream 1: Config Mixture: Hydrogen Sulfide | FP | — | RW |
| 2415 | 096F | Gas Stream 1: Config Mixture: Hydrogen | FP | — | RW |
| 2417 | 0971 | Gas Stream 1: Config Mixture: Carbon Monoxide | FP | — | RW |
| 2419 | 0973 | Gas Stream 1: Config Mixture: Oxygen | FP | — | RW |
| 2421 | 0975 | Gas Stream 1: Config Mixture: Isobutane | FP | — | RW |
| 2423 | 0977 | Gas Stream 1: Config Mixture: Butane | FP | — | RW |
| 2425 | 0979 | Gas Stream 1: Config Mixture: Isopentane | FP | — | RW |
| 2427 | 097B | Gas Stream 1: Config Mixture: NPentane | FP | — | RW |
| 2429 | 097D | Gas Stream 1: Config Mixture: Hexane | FP | — | RW |
| 2431 | 097F | Gas Stream 1: Config Mixture: Heptane | FP | — | RW |
| 2433 | 0981 | Gas Stream 1: Config Mixture: Octane | FP | — | RW |
| 2435 | 0983 | Gas Stream 1: Config Mixture: Nonane | FP | — | RW |
| 2437 | 0985 | Gas Stream 1: Config Mixture: Decane | FP | — | RW |
| 2439 | 0987 | Gas Stream 1: Config Mixture: Helium | FP | — | RW |
| 2441 | 0989 | Gas Stream 1: Config Mixture: Argon | FP | — | RW |
| 2443 | 098B | Gas Stream 1: Config Mixture: Neopentane | FP | — | RW |
| 2445 | 098D | Gas Stream 1: Config Mixture: Isohexane | FP | — | RW |
| 2447 | 098F | Gas Stream 1: Config Mixture: Methylpentane 3 | FP | — | RW |
| 2449 | 0991 | Gas Stream 1: Config Mixture: Neohexane | FP | — | RW |
| 2451 | 0993 | Gas Stream 1: Config Mixture: Biisopropyl | FP | — | RW |
| 2453 | 0995 | Gas Stream 1: Config Mixture: Ethylene | FP | — | RW |
| 2455 | 0997 | Gas Stream 1: Config Mixture: Propylene | FP | — | RW |
| 2457 | 0999 | Gas Stream 1: Config Mixture: Methyl Alcohol | FP | — | RW |

Gas Stream 2 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 2501 | 09C5 | Gas Stream 2: Config Mixture: Methane | FP | — | RW |
| 2503 | 09C7 | Gas Stream 2: Config Mixture: Nitrogen | FP | — | RW |
| 2505 | 09C9 | Gas Stream 2: Config Mixture: Carbon Dioxide | FP | — | RW |
| 2507 | 09CB | Gas Stream 2: Config Mixture: Ethane | FP | — | RW |
| 2509 | 09CD | Gas Stream 2: Config Mixture: Propane | FP | — | RW |
| 2511 | 09CF | Gas Stream 2: Config Mixture: Water | FP | — | RW |
| 2513 | 09D1 | Gas Stream 2: Config Mixture: Hydrogen Sulfide | FP | — | RW |
| 2515 | 09D3 | Gas Stream 2: Config Mixture: Hydrogen | FP | — | RW |
| 2517 | 09D5 | Gas Stream 2: Config Mixture: Carbon Monoxide | FP | — | RW |
| 2519 | 09D7 | Gas Stream 2: Config Mixture: Oxygen | FP | — | RW |
| 2521 | 09D9 | Gas Stream 2: Config Mixture: Isobutane | FP | — | RW |
| 2523 | 09DB | Gas Stream 2: Config Mixture: Butane | FP | — | RW |
| 2525 | 09DD | Gas Stream 2: Config Mixture: Isopentane | FP | — | RW |
| 2527 | 09DF | Gas Stream 2: Config Mixture: NPentane | FP | — | RW |
| 2529 | 09E1 | Gas Stream 2: Config Mixture: Hexane | FP | — | RW |
| 2531 | 09E3 | Gas Stream 2: Config Mixture: Heptane | FP | — | RW |
| 2533 | 09E5 | Gas Stream 2: Config Mixture: Octane | FP | — | RW |
| 2535 | 09E7 | Gas Stream 2: Config Mixture: Nonane | FP | — | RW |
| 2537 | 09E9 | Gas Stream 2: Config Mixture: Decane | FP | — | RW |
| 2539 | 09EB | Gas Stream 2: Config Mixture: Helium | FP | — | RW |
| 2541 | 09ED | Gas Stream 2: Config Mixture: Argon | FP | — | RW |
| 2543 | 09EF | Gas Stream 2: Config Mixture: Neopentane | FP | — | RW |
| 2545 | 09F1 | Gas Stream 2: Config Mixture: Isohexane | FP | — | RW |
| 2547 | 09F3 | Gas Stream 2: Config Mixture: Methylpentane 3 | FP | — | RW |
| 2549 | 09F5 | Gas Stream 2: Config Mixture: Neohexane | FP | — | RW |
| 2551 | 09F7 | Gas Stream 2: Config Mixture: Biisopropyl | FP | — | RW |
| 2553 | 09F9 | Gas Stream 2: Config Mixture: Ethylene | FP | — | RW |
| 2555 | 09FB | Gas Stream 2: Config Mixture: Propylene | FP | — | RW |
| 2557 | 09FD | Gas Stream 2: Config Mixture: Methyl Alcohol | FP | — | RW |

Input/Output Configuration (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 2601 | 0A29 | Differential Pressure: Config: Override Enable | INT32 | — | RW |
| 2603 | 0A2B | Static Pressure: Config: Override Enable | INT32 | — | RW |
| 2605 | 0A2D | RTD1: Config: Override Enable | INT32 | — | RW |
| 2607 | 0A2F | RTD2: Config: Override Enable | INT32 | — | RW |
| 2609 | 0A31 | Analog 1: Config: Override Enable | INT32 | — | RW |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 2611 | 0A33 | Analog 2: Config: Override Enable | INT32 | — | RW |
| 2613 | 0A35 | Analog 3: Config: Override Enable | INT32 | — | RW |
| 2615 | 0A37 | Analog 4: Config: Override Enable | INT32 | — | RW |
| 2617 | 0A39 | Pulse Input 1: Config: Override Enable | INT32 | — | RW |
| 2619 | 0A3B | Pulse Input 2: Config: Override Enable | INT32 | — | RW |
| 2621 | 0A3D | Pulse Input 3: Config: Override Enable | INT32 | — | RW |
| 2623 | 0A3F | Analog Output 1 PID: Config: Override Enable | INT32 | — | RW |
| 2625 | 0A41 | Analog Output 2 PID: Config: Override Enable | INT32 | — | RW |

Input/Output Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|---------------------------|--------|
| 2701 | 0A8D | Differential Pressure: Config: Override Value | FP | "H2O@68F | RW |
| 2703 | 0A8F | Static Pressure Config: Override Value | FP | psig | RW |
| 2705 | 0A91 | RTD1: Config: Override Value | FP | °F | RW |
| 2707 | 0A93 | RTD2: Config: Override Value | FP | °F | RW |
| 2709 | 0A95 | Analog Input 1: Config: Override Value | FP | — | RW |
| 2711 | 0A97 | Analog Input 2: Config: Override Value | FP | — | RW |
| 2713 | 0A99 | Analog Input 3: Config: Override Value | FP | — | RW |
| 2715 | 0A9B | Analog Input 4: Config: Override Value | FP | — | RW |
| 2717 | 0A9D | Pulse Input 1: Config: Override Rate Value | FP | bbl/day | RW |
| 2719 | 0A9F | Pulse Input 2: Config: Override Rate Value | FP | bbl/day | RW |
| 2721 | 0AA1 | Pulse Input 3: Config: Override Rate Value | FP | bbl/day | RW |
| 2723 | 0AA3 | Pulse Input 1: Calibration: Nominal Factor | FP | pulses/gal | RW |
| 2725 | 0AA5 | Pulse Input 2: Calibration: Nominal Factor | FP | pulses/gal | RW |
| 2727 | 0AA7 | Pulse Input 3: Calibration: Nominal Factor | FP | pulses/gal | RW |
| 2729 | 0AA9 | Analog Output 1 PID: Config: Static Pressure Value | FP | varies with configuration | RW |
| 2731 | 0AAB | Analog Output 1 PID: Config: Override Value | FP | varies with configuration | RW |
| 2733 | 0AAD | Analog Output 1 PID: Config: Kp | FP | — | RW |
| 2735 | 0AAF | Analog Output 1 PID: Config: Ki | FP | — | RW |
| 2737 | 0AB1 | Analog Output 1 PID: Config: Kd | FP | — | RW |
| 2739 | 0AB3 | Analog Output 1 Pressure Override: Config: Kp | FP | — | RW |
| 2741 | 0AB5 | Analog Output 1 Pressure Override: Config: Ki | FP | — | RW |
| 2743 | 0AB7 | Analog Output 1 Pressure Override: Config: Kd | FP | — | RW |
| 2745 | 0AB9 | Analog Output 2 PID: Config: Static Pressure Value | FP | varies with configuration | RW |
| 2747 | 0ABB | Analog Output 2 PID: Config: Override Value | FP | varies with configuration | RW |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|------------|--------|
| 2749 | 0ABD | Analog Output 2 PID: Config: Kp | FP | — | RW |
| 2751 | 0ABF | Analog Output 2 PID: Config: Ki | FP | — | RW |
| 2753 | 0AC1 | Analog Output 2 PID: Config: Kd | FP | — | RW |
| 2755 | 0AC3 | Analog Output 2 Pressure Override: Config: Kp | FP | — | RW |
| 2757 | 0AC5 | Analog Output 2 Pressure Override: Config: Ki | FP | — | RW |
| 2759 | 0AC7 | Analog Output 2 Pressure Override: Config: Kd | FP | — | RW |
| 2761 | 0AC9 | Analog Output 1 PID: Configuration: Setpoint Tolerance | FP | — | RW |
| 2763 | 0ACB | Analog Output 1 PID: Configuration: Setpoint Dead Band | FP | — | RW |
| 2765 | 0ACD | Analog Output 1 Pressure Override: Configuration: Setpoint Tolerance | FP | — | RW |
| 2767 | 0ACF | Analog Output 1 Pressure Override: Configuration: Setpoint Dead Band | FP | — | RW |
| 2769 | 0AD1 | Analog Output 2 PID: Configuration: Setpoint Tolerance | FP | — | RW |
| 2771 | 0AD3 | Analog Output 2 PID: Configuration: Setpoint Dead Band | FP | — | RW |
| 2773 | 0AD5 | Analog Output 2 Pressure Override: Configuration: Setpoint Tolerance | FP | — | RW |
| 2775 | 0AD7 | Analog Output 2 Pressure Override: Configuration: Setpoint Dead Band | FP | — | RW |
| 2777 | 0AD9 | Digital Valve 1 PID: Configuration: Setpoint Value | FP | — | RW |
| 2779 | 0ADB | Digital Valve 1 PID: Configuration: Override Value | FP | — | RW |
| 2781 | 0ADD | Digital Valve 1 PID: Configuration: Kp | FP | — | RW |
| 2783 | 0ADF | Digital Valve 1 PID: Configuration: Ki | FP | — | RW |
| 2785 | 0AE1 | Digital Valve 1 PID: Configuration: Kd | FP | — | RW |
| 2787 | 0AE3 | Digital Valve 1 Pressure Override: Configuration: Kp | FP | — | RW |
| 2789 | 0AE5 | Digital Valve 1 Pressure Override: Configuration: Ki | FP | — | RW |
| 2791 | 0AE7 | Digital Valve 1 Pressure Override: Configuration: Kd | FP | — | RW |
| 2793 | 0AE9 | Digital Valve 1 PID: Configuration: Setpoint Tolerance | FP | — | RW |
| 2795 | 0AEB | Digital Valve 1 PID: Configuration: Setpoint Dead Band | FP | — | RW |
| 2797 | 0AED | Digital Valve 1 Pressure Override: Configuration: Setpoint Tolerance | FP | — | RW |
| 2799 | 0AEF | Digital Valve 1 PID: Configuration: Setpoint Dead Band | FP | — | RW |
| 2801 | 0AF1 | Pulse Input 1: Calibration: Linear Meter Factor Out Fact 1 | FP | pulses/gal | RW |
| 2803 | 0AF3 | Pulse Input 2: Calibration: Linear Meter Factor Out Fact 1 | FP | pulses/gal | RW |
| 2805 | 0AF5 | Pulse Input 3: Calibration: Linear Meter Factor Out Fact 1 | FP | pulses/gal | RW |

* Not support under Scanner 3100 Measurement Canada Firmware

Scanner Logic HMI User Fields

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------|-----------|-------|--------|
| 3001 | 0BB9 | Holding: R 1 | FP | | RW |
| 3003 | 0BBB | Holding: R 2 | FP | | RW |
| 3005 | 0BBD | Holding: R 3 | FP | | RW |
| 3007 | 0BBF | Holding: R 4 | FP | | RW |
| 3009 | 0BC1 | Holding: R 5 | FP | | RW |
| 3011 | 0BC3 | Holding: R 6 | FP | | RW |
| 3013 | 0BC5 | Holding: R 7 | FP | | RW |
| 3015 | 0BC7 | Holding: R 8 | FP | | RW |
| 3017 | 0BC9 | Holding: R 9 | FP | | RW |
| 3019 | 0BCB | Holding: R 10 | FP | | RW |
| 3021 | 0BCD | Holding: R 11 | FP | | RW |
| 3023 | 0BCF | Holding: R 12 | FP | | RW |
| 3025 | 0BD1 | Holding: R 13 | FP | | RW |
| 3027 | 0BD3 | Holding: R 14 | FP | | RW |
| 3029 | 0BD5 | Holding: R 15 | FP | | RW |
| 3031 | 0BD7 | Holding: R 16 | FP | | RW |
| 3033 | 0BD9 | Holding: R 17 | FP | | RW |
| 3035 | 0BDB | Holding: R 18 | FP | | RW |
| 3037 | 0BDD | Holding: R 19 | FP | | RW |
| 3039 | 0BDF | Holding: R 20 | FP | | RW |
| 3041 | 0BE1 | Holding: R 21 | FP | | RW |
| 3043 | 0BE3 | Holding: R 22 | FP | | RW |
| 3045 | 0BE5 | Holding: R 23 | FP | | RW |
| 3047 | 0BE7 | Holding: R 24 | FP | | RW |
| 3049 | 0BE9 | Holding: R 25 | FP | | RW |
| 3051 | 0BEB | Holding: R 26 | FP | | RW |
| 3053 | 0BED | Holding: R 27 | FP | | RW |
| 3055 | 0BEF | Holding: R 28 | FP | | RW |
| 3057 | 0BF1 | Holding: R 29 | FP | | RW |
| 3059 | 0BF3 | Holding: R 30 | FP | | RW |
| 3061 | 0BF5 | Holding: R 31 | FP | | RW |
| 3063 | 0BF7 | Holding: R 32 | FP | | RW |
| 3065 | 0BF9 | Holding: R 33 | FP | | RW |
| 3067 | 0BFB | Holding: R 34 | FP | | RW |
| 3069 | 0BFD | Holding: R 35 | FP | | RW |
| 3071 | 0BFF | Holding: R 36 | FP | | RW |
| 3073 | 0C01 | Holding: R 37 | FP | | RW |
| 3075 | 0C03 | Holding: R 38 | FP | | RW |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------|-----------|-------|--------|
| 3077 | 0C05 | Holding: R 39 | FP | | RW |
| 3079 | 0C07 | Holding: R 40 | FP | | RW |
| 3081 | 0C09 | Holding: R 41 | FP | | RW |
| 3083 | 0C0B | Holding: R 42 | FP | | RW |
| 3085 | 0C0D | Holding: R 43 | FP | | RW |
| 3087 | 0C0F | Holding: R 44 | FP | | RW |
| 3089 | 0C11 | Holding: R 45 | FP | | RW |
| 3091 | 0C13 | Holding: R 46 | FP | | RW |
| 3093 | 0C15 | Holding: R 47 | FP | | RW |
| 3095 | 0C17 | Holding: R 48 | FP | | RW |
| 3097 | 0C19 | Holding: R 49 | FP | | RW |
| 3099 | 0C1B | Holding: R 50 | FP | | RW |
| 3101 | 0C1D | Holding: R 51 | FP | | RW |
| 3103 | 0C1F | Holding: R 52 | FP | | RW |
| 3105 | 0C21 | Holding: R 53 | FP | | RW |
| 3107 | 0C23 | Holding: R 54 | FP | | RW |
| 3109 | 0C25 | Holding: R 55 | FP | | RW |
| 3111 | 0C27 | Holding: R 56 | FP | | RW |
| 3113 | 0C29 | Holding: R 57 | FP | | RW |
| 3115 | 0C2B | Holding: R 58 | FP | | RW |
| 3117 | 0C2D | Holding: R 59 | FP | | RW |
| 3119 | 0C2F | Holding: R 60 | FP | | RW |
| 3121 | 0C31 | Holding: R 61 | FP | | RW |
| 3123 | 0C33 | Holding: R 62 | FP | | RW |
| 3125 | 0C35 | Holding: R 63 | FP | | RW |
| 3127 | 0C37 | Holding: R 64 | FP | | RW |

Scanner Logic HMI PID Fields

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------|-----------|-------|--------|
| 3201 | 0C81 | Holding: Reserved | FP | | RW |
| 3203 | 0C83 | Holding: AC1 Output | FP | | RW |
| 3205 | 0C85 | Holding: AC1 Error | FP | | RW |
| 3207 | 0C87 | Holding: AC1 Is Auto Mode | FP | | RW |
| 3209 | 0C89 | Holding: AC1 Range High | FP | | RW |
| 3211 | 0C8B | Holding: AC1 Range Low | FP | | RW |
| 3213 | 0C8D | Holding: AC1 Setpoint | FP | | RW |
| 3215 | 0C8F | Holding: AC1 Setpoint Tolerance | FP | | RW |
| 3217 | 0C91 | Holding: AC1 Setpoint Dead Band | FP | | RW |
| 3219 | 0C93 | Holding: AC1 Override Value | FP | | RW |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|-------------------------------------|-----------|-------|--------|
| 3221 | 0C95 | Holding: AC1 Fail Value | FP | | RW |
| 3223 | 0C97 | Holding: AC1 Kp | FP | | RW |
| 3225 | 0C99 | Holding: AC1 Ki | FP | | RW |
| 3227 | 0C9B | Holding: AC1 Kd | FP | | RW |
| 3229 | 0C9D | Holding: AC1 Is Constraint Override | FP | | RW |
| 3231 | 0C9F | Holding: AC1 Constraint Range High | FP | | RW |
| 3233 | 0CA1 | Holding: AC1 Constraint Range Low | FP | | RW |
| 3235 | 0CA3 | Holding: AC1 Constraint Setpoint | FP | | RW |
| 3237 | 0CA5 | Holding: AC1 Constraint Dead Band | FP | | RW |
| 3239 | 0CA7 | Holding: AC1 Constraint Kp | FP | | RW |
| 3241 | 0CA9 | Holding: AC1 Constraint Ki | FP | | RW |
| 3243 | 0CAB | Holding: AC1 Constraint Kd | FP | | RW |
| 3245 | 0CAD | Holding: AC1 Output | FP | | RW |
| 3247 | 0CAF | Holding: AC1 Error | FP | | RW |
| 3249 | 0CB1 | Holding: AC1 Is Auto Mode | FP | | RW |
| 3251 | 0CB3 | Holding: AC1 Range High | FP | | RW |
| 3253 | 0CB5 | Holding: AC1 Range Low | FP | | RW |
| 3255 | 0CB7 | Holding: AC1 Setpoint | FP | | RW |
| 3257 | 0CB9 | Holding: AC1 Setpoint Tolerance | FP | | RW |
| 3259 | 0CBB | Holding: AC1 Setpoint Dead Band | FP | | RW |
| 3261 | 0CBD | Holding: AC1 Override Value | FP | | RW |
| 3263 | 0CBF | Holding: AC1 Fail Value | FP | | RW |
| 3265 | 0CC1 | Holding: AC1 Kp | FP | | RW |
| 3267 | 0CC3 | Holding: AC1 Ki | FP | | RW |
| 3269 | 0CC5 | Holding: AC1 Kd | FP | | RW |
| 3271 | 0CC7 | Holding: AC1 Is Constraint Override | FP | | RW |
| 3273 | 0CC9 | Holding: AC1 Constraint Range High | FP | | RW |
| 3275 | 0CCB | Holding: AC1 Constraint Range Low | FP | | RW |
| 3277 | 0CCD | Holding: AC1 Constraint Setpoint | FP | | RW |
| 3279 | 0CCF | Holding: AC1 Constraint Dead Band | FP | | RW |
| 3281 | 0CD1 | Holding: AC1 Constraint Kp | FP | | RW |
| 3283 | 0CD3 | Holding: AC1 Constraint Ki | FP | | RW |
| 3285 | 0CD5 | Holding: AC1 Constraint Kd | FP | | RW |
| 3287 | 0CD7 | Holding: AC1 Output | FP | | RW |
| 3289 | 0CD9 | Holding: AC1 Error | FP | | RW |
| 3291 | 0CDB | Holding: AC1 Is Auto Mode | FP | | RW |
| 3293 | 0CDD | Holding: AC1 Range High | FP | | RW |
| 3295 | 0CDF | Holding: AC1 Range Low | FP | | RW |
| 3297 | 0CE1 | Holding: AC1 Setpoint | FP | | RW |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|-------------------------------------|-----------|-------|--------|
| 3299 | 0CE3 | Holding: AC1 Setpoint Tolerance | FP | | RW |
| 3301 | 0CE5 | Holding: AC1 Setpoint Dead Band | FP | | RW |
| 3303 | 0CE7 | Holding: AC1 Override Value | FP | | RW |
| 3305 | 0CE9 | Holding: AC1 Fail Value | FP | | RW |
| 3307 | 0CEB | Holding: AC1 Kp | FP | | RW |
| 3309 | 0CED | Holding: AC1 Ki | FP | | RW |
| 3311 | 0CEF | Holding: AC1 Kd | FP | | RW |
| 3313 | 0CF1 | Holding: AC1 Is Constraint Override | FP | | RW |
| 3315 | 0CF3 | Holding: AC1 Constraint Range High | FP | | RW |
| 3317 | 0CF5 | Holding: AC1 Constraint Range Low | FP | | RW |
| 3319 | 0CF7 | Holding: AC1 Constraint Setpoint | FP | | RW |
| 3321 | 0CF9 | Holding: AC1 Constraint Dead Band | FP | | RW |
| 3323 | 0CFB | Holding: AC1 Constraint Kp | FP | | RW |
| 3325 | 0CFD | Holding: AC1 Constraint Ki | FP | | RW |
| 3327 | 0CFF | Holding: AC1 Constraint Kd | FP | | RW |

Archive 1: Daily Selections (16-bit)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|------------------------------|-----------|-------|--------|
| 3500 | 0DAC | FA1S1: Holding: Daily Value | FLOAT | — | RO |
| 3502 | 0DAE | FA1S2: Holding: Daily Value | FLOAT | — | RO |
| 3504 | 0DB0 | FA1S3: Holding: Daily Value | FLOAT | — | RO |
| 3506 | 0DB2 | FA1S4: Holding: Daily Value | FLOAT | — | RO |
| 3508 | 0DB4 | FA1S5: Holding: Daily Value | FLOAT | — | RO |
| 3510 | 0DB6 | FA1S6: Holding: Daily Value | FLOAT | — | RO |
| 3512 | 0DB8 | FA1S7: Holding: Daily Value | FLOAT | — | RO |
| 3514 | 0DBA | FA1S8: Holding: Daily Value | FLOAT | — | RO |
| 3516 | 0DBC | FA1S9: Holding: Daily Value | FLOAT | — | RO |
| 3518 | 0DBE | FA1S10: Holding: Daily Value | FLOAT | — | RO |
| 3520 | 0DC0 | FA1S11: Holding: Daily Value | FLOAT | — | RO |
| 3522 | 0DC2 | FA1S12: Holding: Daily Value | FLOAT | — | RO |
| 3524 | 0DC4 | FA1S13: Holding: Daily Value | FLOAT | — | RO |
| 3526 | 0DC6 | FA1S14: Holding: Daily Value | FLOAT | — | RO |
| 3528 | 0DC8 | FA1S15: Holding: Daily Value | FLOAT | — | RO |
| 3530 | 0DCA | FA1S16: Holding: Daily Value | FLOAT | — | RO |
| 3532 | 0DCC | FA1S17: Holding: Daily Value | FLOAT | — | RO |
| 3534 | 0DCE | FA1S18: Holding: Daily Value | FLOAT | — | RO |
| 3536 | 0DD0 | FA1S19: Holding: Daily Value | FLOAT | — | RO |
| 3538 | 0DD2 | FA1S20: Holding: Daily Value | FLOAT | — | RO |
| 3540 | 0DD4 | FA1S21: Holding: Daily Value | FLOAT | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|------------------------------|-----------|-------|--------|
| 3542 | 0DD6 | FA1S22: Holding: Daily Value | FLOAT | — | RO |
| 3544 | 0DD8 | FA1S23: Holding: Daily Value | FLOAT | — | RO |
| 3546 | 0DDA | FA1S24: Holding: Daily Value | FLOAT | — | RO |
| 3548 | 0DDC | FA1S25: Holding: Daily Value | FLOAT | — | RO |
| 3550 | 0DDE | FA1S26: Holding: Daily Value | FLOAT | — | RO |
| 3552 | 0DE0 | FA1S27: Holding: Daily Value | FLOAT | — | RO |
| 3554 | 0DE2 | FA1S28: Holding: Daily Value | FLOAT | — | RO |
| 3556 | 0DE4 | FA1S29: Holding: Daily Value | FLOAT | — | RO |
| 3558 | 0DE6 | FA1S30: Holding: Daily Value | FLOAT | — | RO |
| 3560 | 0DE8 | FA1S31: Holding: Daily Value | FLOAT | — | RO |
| 3562 | 0DEA | FA1S32: Holding: Daily Value | FLOAT | — | RO |
| 3564 | 0DEC | FA1S33: Holding: Daily Value | FLOAT | — | RO |
| 3566 | 0DEE | FA1S34: Holding: Daily Value | FLOAT | — | RO |
| 3568 | 0DF0 | FA1S35: Holding: Daily Value | FLOAT | — | RO |
| 3570 | 0DF2 | FA1S36: Holding: Daily Value | FLOAT | — | RO |
| 3572 | 0DF4 | FA1S37: Holding: Daily Value | FLOAT | — | RO |
| 3574 | 0DF6 | FA1S38: Holding: Daily Value | FLOAT | — | RO |
| 3576 | 0DF8 | FA1S39: Holding: Daily Value | FLOAT | — | RO |
| 3578 | 0DFA | FA1S40: Holding: Daily Value | FLOAT | — | RO |
| 3580 | 0DFC | FA1S41: Holding: Daily Value | FLOAT | — | RO |
| 3582 | 0DFE | FA1S42: Holding: Daily Value | FLOAT | — | RO |
| 3584 | 0E00 | FA1S43: Holding: Daily Value | FLOAT | — | RO |
| 3586 | 0E02 | FA1S44: Holding: Daily Value | FLOAT | — | RO |
| 3588 | 0E04 | FA1S45: Holding: Daily Value | FLOAT | — | RO |
| 3590 | 0E06 | FA1S46: Holding: Daily Value | FLOAT | — | RO |
| 3592 | 0E08 | FA1S47: Holding: Daily Value | FLOAT | — | RO |
| 3594 | 0E0A | FA1S48: Holding: Daily Value | FLOAT | — | RO |
| 3596 | 0E0C | FA1S49: Holding: Daily Value | FLOAT | — | RO |
| 3598 | 0E0E | FA1S50: Holding: Daily Value | FLOAT | — | RO |
| 3600 | 0E10 | FA1S51: Holding: Daily Value | FLOAT | — | RO |
| 3602 | 0E12 | FA1S52: Holding: Daily Value | FLOAT | — | RO |
| 3604 | 0E14 | FA1S53: Holding: Daily Value | FLOAT | — | RO |
| 3606 | 0E16 | FA1S54: Holding: Daily Value | FLOAT | — | RO |
| 3608 | 0E18 | FA1S55: Holding: Daily Value | FLOAT | — | RO |
| 3610 | 0E1A | FA1S56: Holding: Daily Value | FLOAT | — | RO |
| 3612 | 0E1C | FA1S57: Holding: Daily Value | FLOAT | — | RO |
| 3614 | 0E1E | FA1S58: Holding: Daily Value | FLOAT | — | RO |
| 3616 | 0E20 | FA1S59: Holding: Daily Value | FLOAT | — | RO |
| 3618 | 0E22 | FA1S60: Holding: Daily Value | FLOAT | — | RO |

Archive 1: Prev Daily Selections (16-bit)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------------|-----------|-------|--------|
| 3650 | 0E42 | FA1S1: Holding: Previous Daily Value | FLOAT | — | RO |
| 3652 | 0E44 | FA1S2: Holding: Previous Daily Value | FLOAT | — | RO |
| 3654 | 0E46 | FA1S3: Holding: Previous Daily Value | FLOAT | — | RO |
| 3656 | 0E48 | FA1S4: Holding: Previous Daily Value | FLOAT | — | RO |
| 3658 | 0E4A | FA1S5: Holding: Previous Daily Value | FLOAT | — | RO |
| 3660 | 0E4C | FA1S6: Holding: Previous Daily Value | FLOAT | — | RO |
| 3662 | 0E4E | FA1S7: Holding: Previous Daily Value | FLOAT | — | RO |
| 3664 | 0E50 | FA1S8: Holding: Previous Daily Value | FLOAT | — | RO |
| 3666 | 0E52 | FA1S9: Holding: Previous Daily Value | FLOAT | — | RO |
| 3668 | 0E54 | FA1S10: Holding: Previous Daily Value | FLOAT | — | RO |
| 3670 | 0E56 | FA1S11: Holding: Previous Daily Value | FLOAT | — | RO |
| 3672 | 0E58 | FA1S12: Holding: Previous Daily Value | FLOAT | — | RO |
| 3674 | 0E5A | FA1S13: Holding: Previous Daily Value | FLOAT | — | RO |
| 3676 | 0E5C | FA1S14: Holding: Previous Daily Value | FLOAT | — | RO |
| 3678 | 0E5E | FA1S15: Holding: Previous Daily Value | FLOAT | — | RO |
| 3680 | 0E60 | FA1S16: Holding: Previous Daily Value | FLOAT | — | RO |
| 3682 | 0E62 | FA1S17: Holding: Previous Daily Value | FLOAT | — | RO |
| 3684 | 0E64 | FA1S18: Holding: Previous Daily Value | FLOAT | — | RO |
| 3686 | 0E66 | FA1S19: Holding: Previous Daily Value | FLOAT | — | RO |
| 3688 | 0E68 | FA1S20: Holding: Previous Daily Value | FLOAT | — | RO |
| 3690 | 0E6A | FA1S21: Holding: Previous Daily Value | FLOAT | — | RO |
| 3692 | 0E6C | FA1S22: Holding: Previous Daily Value | FLOAT | — | RO |
| 3694 | 0E6E | FA1S23: Holding: Previous Daily Value | FLOAT | — | RO |
| 3696 | 0E70 | FA1S24: Holding: Previous Daily Value | FLOAT | — | RO |
| 3698 | 0E72 | FA1S25: Holding: Previous Daily Value | FLOAT | — | RO |
| 3700 | 0E74 | FA1S26: Holding: Previous Daily Value | FLOAT | — | RO |
| 3702 | 0E76 | FA1S27: Holding: Previous Daily Value | FLOAT | — | RO |
| 3704 | 0E78 | FA1S28: Holding: Previous Daily Value | FLOAT | — | RO |
| 3706 | 0E7A | FA1S29: Holding: Previous Daily Value | FLOAT | — | RO |
| 3708 | 0E7C | FA1S30: Holding: Previous Daily Value | FLOAT | — | RO |
| 3710 | 0E7E | FA1S31: Holding: Previous Daily Value | FLOAT | — | RO |
| 3712 | 0E80 | FA1S32: Holding: Previous Daily Value | FLOAT | — | RO |
| 3714 | 0E82 | FA1S33: Holding: Previous Daily Value | FLOAT | — | RO |
| 3716 | 0E84 | FA1S34: Holding: Previous Daily Value | FLOAT | — | RO |
| 3718 | 0E86 | FA1S35: Holding: Previous Daily Value | FLOAT | — | RO |
| 3720 | 0E88 | FA1S36: Holding: Previous Daily Value | FLOAT | — | RO |
| 3722 | 0E8A | FA1S37: Holding: Previous Daily Value | FLOAT | — | RO |
| 3724 | 0E8C | FA1S38: Holding: Previous Daily Value | FLOAT | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------------|-----------|-------|--------|
| 3726 | 0E8E | FA1S39: Holding: Previous Daily Value | FLOAT | — | RO |
| 3728 | 0E90 | FA1S40: Holding: Previous Daily Value | FLOAT | — | RO |
| 3730 | 0E92 | FA1S41: Holding: Previous Daily Value | FLOAT | — | RO |
| 3732 | 0E94 | FA1S42: Holding: Previous Daily Value | FLOAT | — | RO |
| 3734 | 0E96 | FA1S43: Holding: Previous Daily Value | FLOAT | — | RO |
| 3736 | 0E98 | FA1S44: Holding: Previous Daily Value | FLOAT | — | RO |
| 3738 | 0E9A | FA1S45: Holding: Previous Daily Value | FLOAT | — | RO |
| 3740 | 0E9C | FA1S46: Holding: Previous Daily Value | FLOAT | — | RO |
| 3742 | 0E9E | FA1S47: Holding: Previous Daily Value | FLOAT | — | RO |
| 3744 | 0EA0 | FA1S48: Holding: Previous Daily Value | FLOAT | — | RO |
| 3746 | 0EA2 | FA1S49: Holding: Previous Daily Value | FLOAT | — | RO |
| 3748 | 0EA4 | FA1S50: Holding: Previous Daily Value | FLOAT | — | RO |
| 3750 | 0EA6 | FA1S51: Holding: Previous Daily Value | FLOAT | — | RO |
| 3752 | 0EA8 | FA1S52: Holding: Previous Daily Value | FLOAT | — | RO |
| 3754 | 0EAA | FA1S53: Holding: Previous Daily Value | FLOAT | — | RO |
| 3756 | 0EAC | FA1S54: Holding: Previous Daily Value | FLOAT | — | RO |
| 3758 | 0EAE | FA1S55: Holding: Previous Daily Value | FLOAT | — | RO |
| 3760 | 0EB0 | FA1S56: Holding: Previous Daily Value | FLOAT | — | RO |
| 3762 | 0EB2 | FA1S57: Holding: Previous Daily Value | FLOAT | — | RO |
| 3764 | 0EB4 | FA1S58: Holding: Previous Daily Value | FLOAT | — | RO |
| 3766 | 0EB6 | FA1S59: Holding: Previous Daily Value | FLOAT | — | RO |
| 3768 | 0EB8 | FA1S60: Holding: Previous Daily Value | FLOAT | — | RO |

Archive 1: Interval Selections (16-bit)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------|-----------|-------|--------|
| 3800 | 0ED8 | FA1S1: Holding: Interval Value | FLOAT | — | RO |
| 3802 | 0EDA | FA1S2: Holding: Interval Value | FLOAT | — | RO |
| 3804 | 0EDC | FA1S3: Holding: Interval Value | FLOAT | — | RO |
| 3806 | 0EDE | FA1S4: Holding: Interval Value | FLOAT | — | RO |
| 3808 | 0EE0 | FA1S5: Holding: Interval Value | FLOAT | — | RO |
| 3810 | 0EE2 | FA1S6: Holding: Interval Value | FLOAT | — | RO |
| 3812 | 0EE4 | FA1S7: Holding: Interval Value | FLOAT | — | RO |
| 3814 | 0EE6 | FA1S8: Holding: Interval Value | FLOAT | — | RO |
| 3816 | 0EE8 | FA1S9: Holding: Interval Value | FLOAT | — | RO |
| 3818 | 0EEA | FA1S10: Holding: Interval Value | FLOAT | — | RO |
| 3820 | 0EEC | FA1S11: Holding: Interval Value | FLOAT | — | RO |
| 3822 | 0EEE | FA1S12: Holding: Interval Value | FLOAT | — | RO |
| 3824 | 0EF0 | FA1S13: Holding: Interval Value | FLOAT | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------|-----------|-------|--------|
| 3826 | 0EF2 | FA1S14: Holding: Interval Value | FLOAT | — | RO |
| 3828 | 0EF4 | FA1S15: Holding: Interval Value | FLOAT | — | RO |
| 3830 | 0EF6 | FA1S16: Holding: Interval Value | FLOAT | — | RO |
| 3832 | 0EF8 | FA1S17: Holding: Interval Value | FLOAT | — | RO |
| 3834 | 0EFA | FA1S18: Holding: Interval Value | FLOAT | — | RO |
| 3836 | 0EFC | FA1S19: Holding: Interval Value | FLOAT | — | RO |
| 3838 | 0EFE | FA1S20: Holding: Interval Value | FLOAT | — | RO |
| 3840 | 0F00 | FA1S21: Holding: Interval Value | FLOAT | — | RO |
| 3842 | 0F02 | FA1S22: Holding: Interval Value | FLOAT | — | RO |
| 3844 | 0F04 | FA1S23: Holding: Interval Value | FLOAT | — | RO |
| 3846 | 0F06 | FA1S24: Holding: Interval Value | FLOAT | — | RO |
| 3848 | 0F08 | FA1S25: Holding: Interval Value | FLOAT | — | RO |
| 3850 | 0F0A | FA1S26: Holding: Interval Value | FLOAT | — | RO |
| 3852 | 0F0C | FA1S27: Holding: Interval Value | FLOAT | — | RO |
| 3854 | 0F0E | FA1S28: Holding: Interval Value | FLOAT | — | RO |
| 3856 | 0F10 | FA1S29: Holding: Interval Value | FLOAT | — | RO |
| 3858 | 0F12 | FA1S30: Holding: Interval Value | FLOAT | — | RO |
| 3860 | 0F14 | FA1S31: Holding: Interval Value | FLOAT | — | RO |
| 3862 | 0F16 | FA1S32: Holding: Interval Value | FLOAT | — | RO |
| 3864 | 0F18 | FA1S33: Holding: Interval Value | FLOAT | — | RO |
| 3866 | 0F1A | FA1S34: Holding: Interval Value | FLOAT | — | RO |
| 3868 | 0F1C | FA1S35: Holding: Interval Value | FLOAT | — | RO |
| 3870 | 0F1E | FA1S36: Holding: Interval Value | FLOAT | — | RO |
| 3872 | 0F10 | FA1S37: Holding: Interval Value | FLOAT | — | RO |
| 3874 | 0F22 | FA1S38: Holding: Interval Value | FLOAT | — | RO |
| 3876 | 0F24 | FA1S39: Holding: Interval Value | FLOAT | — | RO |
| 3878 | 0F26 | FA1S40: Holding: Interval Value | FLOAT | — | RO |
| 3880 | 0F28 | FA1S41: Holding: Interval Value | FLOAT | — | RO |
| 3882 | 0F2A | FA1S42: Holding: Interval Value | FLOAT | — | RO |
| 3884 | 0F2C | FA1S43: Holding: Interval Value | FLOAT | — | RO |
| 3886 | 0F2E | FA1S44: Holding: Interval Value | FLOAT | — | RO |
| 3888 | 0F30 | FA1S45: Holding: Interval Value | FLOAT | — | RO |
| 3890 | 0F32 | FA1S46: Holding: Interval Value | FLOAT | — | RO |
| 3892 | 0F34 | FA1S47: Holding: Interval Value | FLOAT | — | RO |
| 3894 | 0F36 | FA1S48: Holding: Interval Value | FLOAT | — | RO |
| 3896 | 0F38 | FA1S49: Holding: Interval Value | FLOAT | — | RO |
| 3898 | 0F3A | FA1S50: Holding: Interval Value | FLOAT | — | RO |
| 3900 | 0F3C | FA1S51: Holding: Interval Value | FLOAT | — | RO |
| 3902 | 0F3E | FA1S52: Holding: Interval Value | FLOAT | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------|-----------|-------|--------|
| 3904 | 0F40F40 | FA1S53: Holding: Interval Value | FLOAT | — | RO |
| 3906 | 0F42 | FA1S54: Holding: Interval Value | FLOAT | — | RO |
| 3908 | 0F44 | FA1S55: Holding: Interval Value | FLOAT | — | RO |
| 3910 | 0F46 | FA1S56: Holding: Interval Value | FLOAT | — | RO |
| 3912 | 0F48 | FA1S57: Holding: Interval Value | FLOAT | — | RO |
| 3914 | 0F4A | FA1S58: Holding: Interval Value | FLOAT | — | RO |
| 3916 | 0F4C | FA1S59: Holding: Interval Value | FLOAT | — | RO |
| 3918 | 0F4E | FA1S60: Holding: Interval Value | FLOAT | — | RO |

Archive 1: Prev Interval Selections (16-bit)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 3950 | 0F6E | FA1S1: Holding: Previous Interval Value | FLOAT | — | RO |
| 3952 | 0F70 | FA1S2: Holding: Previous Interval Value | FLOAT | — | RO |
| 3954 | 0F72 | FA1S3: Holding: Previous Interval Value | FLOAT | — | RO |
| 3956 | 0F74 | FA1S4: Holding: Previous Interval Value | FLOAT | — | RO |
| 3958 | 0F76 | FA1S5: Holding: Previous Interval Value | FLOAT | — | RO |
| 3960 | 0F78 | FA1S6: Holding: Previous Interval Value | FLOAT | — | RO |
| 3962 | 0F7A | FA1S7: Holding: Previous Interval Value | FLOAT | — | RO |
| 3964 | 0F7C | FA1S8: Holding: Previous Interval Value | FLOAT | — | RO |
| 3966 | 0F7E | FA1S9: Holding: Previous Interval Value | FLOAT | — | RO |
| 3968 | 0F80 | FA1S10: Holding: Previous Interval Value | FLOAT | — | RO |
| 3970 | 0F82 | FA1S11: Holding: Previous Interval Value | FLOAT | — | RO |
| 3972 | 0F84 | FA1S12: Holding: Previous Interval Value | FLOAT | — | RO |
| 3974 | 0F86 | FA1S13: Holding: Previous Interval Value | FLOAT | — | RO |
| 3976 | 0F88 | FA1S14: Holding: Previous Interval Value | FLOAT | — | RO |
| 3978 | 0F8A | FA1S15: Holding: Previous Interval Value | FLOAT | — | RO |
| 3980 | 0F8C | FA1S16: Holding: Previous Interval Value | FLOAT | — | RO |
| 3982 | 0F8E | FA1S17: Holding: Previous Interval Value | FLOAT | — | RO |
| 3984 | 0F90 | FA1S18: Holding: Previous Interval Value | FLOAT | — | RO |
| 3986 | 0F92 | FA1S19: Holding: Previous Interval Value | FLOAT | — | RO |
| 3988 | 0F94 | FA1S20: Holding: Previous Interval Value | FLOAT | — | RO |
| 3990 | 0F96 | FA1S21: Holding: Previous Interval Value | FLOAT | — | RO |
| 3992 | 0F98 | FA1S22: Holding: Previous Interval Value | FLOAT | — | RO |
| 3994 | 0F9A | FA1S23: Holding: Previous Interval Value | FLOAT | — | RO |
| 3996 | 0F9C | FA1S24: Holding: Previous Interval Value | FLOAT | — | RO |
| 3998 | 0F9E | FA1S25: Holding: Previous Interval Value | FLOAT | — | RO |
| 4000 | 0FA0 | FA1S26: Holding: Previous Interval Value | FLOAT | — | RO |
| 4002 | 0FA2 | FA1S27: Holding: Previous Interval Value | FLOAT | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 4004 | 0FA4 | FA1S28: Holding: Previous Interval Value | FLOAT | — | RO |
| 4006 | 0FA6 | FA1S29: Holding: Previous Interval Value | FLOAT | — | RO |
| 4008 | 0FA8 | FA1S30: Holding: Previous Interval Value | FLOAT | — | RO |
| 4010 | 0FAA | FA1S31: Holding: Previous Interval Value | FLOAT | — | RO |
| 4012 | 0FAC | FA1S32: Holding: Previous Interval Value | FLOAT | — | RO |
| 4014 | 0FAE | FA1S33: Holding: Previous Interval Value | FLOAT | — | RO |
| 4016 | 0FB0 | FA1S34: Holding: Previous Interval Value | FLOAT | — | RO |
| 4018 | 0FB2 | FA1S35: Holding: Previous Interval Value | FLOAT | — | RO |
| 4020 | 0FB4 | FA1S36: Holding: Previous Interval Value | FLOAT | — | RO |
| 4022 | 0FB6 | FA1S37: Holding: Previous Interval Value | FLOAT | — | RO |
| 4024 | 0FB8 | FA1S38: Holding: Previous Interval Value | FLOAT | — | RO |
| 4026 | 0FBA | FA1S39: Holding: Previous Interval Value | FLOAT | — | RO |
| 4028 | 0FBC | FA1S40: Holding: Previous Interval Value | FLOAT | — | RO |
| 4030 | 0FBE | FA1S41: Holding: Previous Interval Value | FLOAT | — | RO |
| 4032 | 0FC0 | FA1S42: Holding: Previous Interval Value | FLOAT | — | RO |
| 4034 | 0FC2 | FA1S43: Holding: Previous Interval Value | FLOAT | — | RO |
| 4036 | 0FC4 | FA1S44: Holding: Previous Interval Value | FLOAT | — | RO |
| 4038 | 0FC6 | FA1S45: Holding: Previous Interval Value | FLOAT | — | RO |
| 4040 | 0FC8 | FA1S46: Holding: Previous Interval Value | FLOAT | — | RO |
| 4042 | 0FCA | FA1S47: Holding: Previous Interval Value | FLOAT | — | RO |
| 4044 | 0FCC | FA1S48: Holding: Previous Interval Value | FLOAT | — | RO |
| 4046 | 0FCE | FA1S49: Holding: Previous Interval Value | FLOAT | — | RO |
| 4048 | 0FD0 | FA1S50: Holding: Previous Interval Value | FLOAT | — | RO |
| 4050 | 0FD2 | FA1S51: Holding: Previous Interval Value | FLOAT | — | RO |
| 4052 | 0FD4 | FA1S52: Holding: Previous Interval Value | FLOAT | — | RO |
| 4054 | 0FD6 | FA1S53: Holding: Previous Interval Value | FLOAT | — | RO |
| 4056 | 0FD8 | FA1S54: Holding: Previous Interval Value | FLOAT | — | RO |
| 4058 | 0FDA | FA1S55: Holding: Previous Interval Value | FLOAT | — | RO |
| 4060 | 0FDC | FA1S56: Holding: Previous Interval Value | FLOAT | — | RO |
| 4062 | 0FDE | FA1S57: Holding: Previous Interval Value | FLOAT | — | RO |
| 4064 | 0FE0 | FA1S58: Holding: Previous Interval Value | FLOAT | — | RO |
| 4066 | 0FE2 | FA1S59: Holding: Previous Interval Value | FLOAT | — | RO |
| 4068 | 0FE4 | FA1S60: Holding: Previous Interval Value | FLOAT | — | RO |

Archive 2: Daily Selections (16-bit)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|-----------------------------|-----------|-------|--------|
| 4100 | 1004 | FA2S1: Holding: Daily Value | FLOAT | — | RO |
| 4102 | 1006 | FA2S2: Holding: Daily Value | FLOAT | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|------------------------------|-----------|-------|--------|
| 4104 | 1008 | FA2S3: Holding: Daily Value | FLOAT | — | RO |
| 4106 | 100A | FA2S4: Holding: Daily Value | FLOAT | — | RO |
| 4108 | 100C | FA2S5: Holding: Daily Value | FLOAT | — | RO |
| 4110 | 100E | FA2S6: Holding: Daily Value | FLOAT | — | RO |
| 4112 | 1010 | FA2S7: Holding: Daily Value | FLOAT | — | RO |
| 4114 | 1012 | FA2S8: Holding: Daily Value | FLOAT | — | RO |
| 4116 | 1014 | FA2S9: Holding: Daily Value | FLOAT | — | RO |
| 4118 | 1016 | FA2S10: Holding: Daily Value | FLOAT | — | RO |
| 4120 | 1018 | FA2S11: Holding: Daily Value | FLOAT | — | RO |
| 4122 | 101A | FA2S12: Holding: Daily Value | FLOAT | — | RO |
| 4124 | 101C | FA2S13: Holding: Daily Value | FLOAT | — | RO |
| 4126 | 101E | FA2S14: Holding: Daily Value | FLOAT | — | RO |
| 4128 | 1020 | FA2S15: Holding: Daily Value | FLOAT | — | RO |
| 4130 | 1022 | FA2S16: Holding: Daily Value | FLOAT | — | RO |
| 4132 | 1024 | FA2S17: Holding: Daily Value | FLOAT | — | RO |
| 4134 | 1026 | FA2S18: Holding: Daily Value | FLOAT | — | RO |
| 4136 | 1028 | FA2S19: Holding: Daily Value | FLOAT | — | RO |
| 4138 | 102A | FA2S20: Holding: Daily Value | FLOAT | — | RO |
| 4140 | 102C | FA2S21: Holding: Daily Value | FLOAT | — | RO |
| 4142 | 102E | FA2S22: Holding: Daily Value | FLOAT | — | RO |
| 4144 | 1030 | FA2S23: Holding: Daily Value | FLOAT | — | RO |
| 4146 | 1032 | FA2S24: Holding: Daily Value | FLOAT | — | RO |
| 4148 | 1034 | FA2S25: Holding: Daily Value | FLOAT | — | RO |
| 4150 | 1036 | FA2S26: Holding: Daily Value | FLOAT | — | RO |
| 4152 | 1038 | FA2S27: Holding: Daily Value | FLOAT | — | RO |
| 4154 | 103A | FA2S28: Holding: Daily Value | FLOAT | — | RO |
| 4156 | 103C | FA2S29: Holding: Daily Value | FLOAT | — | RO |
| 4158 | 103E | FA1S30: Holding: Daily Value | FLOAT | — | RO |
| 4160 | 1040 | FA2S31: Holding: Daily Value | FLOAT | — | RO |
| 4162 | 1042 | FA2S32: Holding: Daily Value | FLOAT | — | RO |
| 4164 | 1044 | FA2S33: Holding: Daily Value | FLOAT | — | RO |
| 4166 | 1046 | FA2S34: Holding: Daily Value | FLOAT | — | RO |
| 4168 | 1048 | FA2S35: Holding: Daily Value | FLOAT | — | RO |
| 4170 | 104A | FA2S36: Holding: Daily Value | FLOAT | — | RO |
| 4172 | 104C | FA2S37: Holding: Daily Value | FLOAT | — | RO |
| 4174 | 104E | FA2S38: Holding: Daily Value | FLOAT | — | RO |
| 4176 | 1050 | FA2S39: Holding: Daily Value | FLOAT | — | RO |
| 4178 | 1052 | FA2S40: Holding: Daily Value | FLOAT | — | RO |
| 4180 | 1054 | FA2S41: Holding: Daily Value | FLOAT | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|------------------------------|-----------|-------|--------|
| 4182 | 1056 | FA2S42: Holding: Daily Value | FLOAT | — | RO |
| 4184 | 1058 | FA2S43: Holding: Daily Value | FLOAT | — | RO |
| 4186 | 105A | FA2S44: Holding: Daily Value | FLOAT | — | RO |
| 4188 | 105C | FA2S45: Holding: Daily Value | FLOAT | — | RO |
| 4190 | 105E | FA2S46: Holding: Daily Value | FLOAT | — | RO |
| 4192 | 1060 | FA2S47: Holding: Daily Value | FLOAT | — | RO |
| 4194 | 1062 | FA2S48: Holding: Daily Value | FLOAT | — | RO |
| 4196 | 1064 | FA2S49: Holding: Daily Value | FLOAT | — | RO |
| 4198 | 1066 | FA2S50: Holding: Daily Value | FLOAT | — | RO |
| 4200 | 1068 | FA2S51: Holding: Daily Value | FLOAT | — | RO |
| 4202 | 106A | FA2S52: Holding: Daily Value | FLOAT | — | RO |
| 4204 | 106C | FA2S53: Holding: Daily Value | FLOAT | — | RO |
| 4206 | 106E | FA2S54: Holding: Daily Value | FLOAT | — | RO |
| 4208 | 1070 | FA2S55: Holding: Daily Value | FLOAT | — | RO |
| 4210 | 1072 | FA2S56: Holding: Daily Value | FLOAT | — | RO |
| 4212 | 1074 | FA2S57: Holding: Daily Value | FLOAT | — | RO |
| 4214 | 1076 | FA2S58: Holding: Daily Value | FLOAT | — | RO |
| 4216 | 1078 | FA2S59: Holding: Daily Value | FLOAT | — | RO |
| 4218 | 107A | FA2S60: Holding: Daily Value | FLOAT | — | RO |

Archive 2: Prev Daily Selections (16-bit)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------------|-----------|-------|--------|
| 4250 | 109A | FA2S1: Holding: Previous Daily Value | FLOAT | — | RO |
| 4252 | 109C | FA2S2: Holding: Previous Daily Value | FLOAT | — | RO |
| 4254 | 109E | FA2S3: Holding: Previous Daily Value | FLOAT | — | RO |
| 4256 | 10A0 | FA2S4: Holding: Previous Daily Value | FLOAT | — | RO |
| 4258 | 10A2 | FA2S5: Holding: Previous Daily Value | FLOAT | — | RO |
| 4260 | 10A4 | FA2S6: Holding: Previous Daily Value | FLOAT | — | RO |
| 4262 | 10A6 | FA2S7: Holding: Previous Daily Value | FLOAT | — | RO |
| 4264 | 10A8 | FA2S8: Holding: Previous Daily Value | FLOAT | — | RO |
| 4266 | 10AA | FA2S9: Holding: Previous Daily Value | FLOAT | — | RO |
| 4268 | 10AC | FA2S10: Holding: Previous Daily Value | FLOAT | — | RO |
| 4270 | 10AE | FA2S11: Holding: Previous Daily Value | FLOAT | — | RO |
| 4272 | 10B0 | FA2S12: Holding: Previous Daily Value | FLOAT | — | RO |
| 4274 | 10B2 | FA2S13: Holding: Previous Daily Value | FLOAT | — | RO |
| 4276 | 10B4 | FA2S14: Holding: Previous Daily Value | FLOAT | — | RO |
| 4278 | 10B6 | FA2S15: Holding: Previous Daily Value | FLOAT | — | RO |
| 4280 | 10B8 | FA2S16: Holding: Previous Daily Value | FLOAT | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------------|-----------|-------|--------|
| 4282 | 10BA | FA2S17: Holding: Previous Daily Value | FLOAT | — | RO |
| 4284 | 10BC | FA2S18: Holding: Previous Daily Value | FLOAT | — | RO |
| 4286 | 10BE | FA2S19: Holding: Previous Daily Value | FLOAT | — | RO |
| 4288 | 10C0 | FA2S20: Holding: Previous Daily Value | FLOAT | — | RO |
| 4290 | 10C2 | FA2S21: Holding: Previous Daily Value | FLOAT | — | RO |
| 4292 | 10C4 | FA2S22: Holding: Previous Daily Value | FLOAT | — | RO |
| 4294 | 10C6 | FA2S23: Holding: Previous Daily Value | FLOAT | — | RO |
| 4296 | 10C8 | FA2S24: Holding: Previous Daily Value | FLOAT | — | RO |
| 4298 | 10CA | FA2S25: Holding: Previous Daily Value | FLOAT | — | RO |
| 4300 | 10CC | FA2S26: Holding: Previous Daily Value | FLOAT | — | RO |
| 4302 | 10CE | FA2S27: Holding: Previous Daily Value | FLOAT | — | RO |
| 4304 | 10D0 | FA2S28: Holding: Previous Daily Value | FLOAT | — | RO |
| 4306 | 10D2 | FA2S29: Holding: Previous Daily Value | FLOAT | — | RO |
| 4308 | 10D4 | FA2S30: Holding: Previous Daily Value | FLOAT | — | RO |
| 4310 | 10D6 | FA2S31: Holding: Previous Daily Value | FLOAT | — | RO |
| 4312 | 10D8 | FA2S32: Holding: Previous Daily Value | FLOAT | — | RO |
| 4314 | 10DA | FA2S33: Holding: Previous Daily Value | FLOAT | — | RO |
| 4316 | 10DC | FA2S34: Holding: Previous Daily Value | FLOAT | — | RO |
| 4318 | 10DE | FA2S35: Holding: Previous Daily Value | FLOAT | — | RO |
| 4320 | 10E0 | FA2S36: Holding: Previous Daily Value | FLOAT | — | RO |
| 4322 | 10E2 | FA2S37: Holding: Previous Daily Value | FLOAT | — | RO |
| 4324 | 10E4 | FA2S38: Holding: Previous Daily Value | FLOAT | — | RO |
| 4326 | 10E6 | FA2S39: Holding: Previous Daily Value | FLOAT | — | RO |
| 4328 | 10E8 | FA2S40: Holding: Previous Daily Value | FLOAT | — | RO |
| 4330 | 10EA | FA2S41: Holding: Previous Daily Value | FLOAT | — | RO |
| 4332 | 10EC | FA2S42: Holding: Previous Daily Value | FLOAT | — | RO |
| 4334 | 10EE | FA2S43: Holding: Previous Daily Value | FLOAT | — | RO |
| 4336 | 10F0 | FA2S44: Holding: Previous Daily Value | FLOAT | — | RO |
| 4338 | 10F2 | FA2S45: Holding: Previous Daily Value | FLOAT | — | RO |
| 4340 | 10F4 | FA2S46: Holding: Previous Daily Value | FLOAT | — | RO |
| 4342 | 10F6 | FA2S47: Holding: Previous Daily Value | FLOAT | — | RO |
| 4344 | 10F8 | FA2S48: Holding: Previous Daily Value | FLOAT | — | RO |
| 4346 | 10FA | FA2S49: Holding: Previous Daily Value | FLOAT | — | RO |
| 4348 | 10FC | FA2S50: Holding: Previous Daily Value | FLOAT | — | RO |
| 4350 | 10FE | FA2S51: Holding: Previous Daily Value | FLOAT | — | RO |
| 4352 | 1100 | FA2S52: Holding: Previous Daily Value | FLOAT | — | RO |
| 4354 | 1102 | FA2S53: Holding: Previous Daily Value | FLOAT | — | RO |
| 4356 | 1104 | FA2S54: Holding: Previous Daily Value | FLOAT | — | RO |
| 4358 | 1106 | FA2S55: Holding: Previous Daily Value | FLOAT | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------------|-----------|-------|--------|
| 4360 | 1108 | FA2S56: Holding: Previous Daily Value | FLOAT | — | RO |
| 4362 | 110A | FA2S57: Holding: Previous Daily Value | FLOAT | — | RO |
| 4364 | 110C | FA2S58: Holding: Previous Daily Value | FLOAT | — | RO |
| 4366 | 110E | FA2S59: Holding: Previous Daily Value | FLOAT | — | RO |
| 4368 | 1110 | FA2S60: Holding: Previous Daily Value | FLOAT | — | RO |

Archive 2: Interval Selections (16-bit)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------|-----------|-------|--------|
| 4400 | 1130 | FA2S1: Holding: Interval Value | FLOAT | — | RO |
| 4402 | 1132 | FA2S2: Holding: Interval Value | FLOAT | — | RO |
| 4404 | 1134 | FA2S3: Holding: Interval Value | FLOAT | — | RO |
| 4406 | 1136 | FA2S4: Holding: Interval Value | FLOAT | — | RO |
| 4408 | 1138 | FA2S5: Holding: Interval Value | FLOAT | — | RO |
| 4410 | 113A | FA2S6: Holding: Interval Value | FLOAT | — | RO |
| 4412 | 113C | FA2S7: Holding: Interval Value | FLOAT | — | RO |
| 4414 | 113E | FA2S8: Holding: Interval Value | FLOAT | — | RO |
| 4416 | 1140 | FA2S9: Holding: Interval Value | FLOAT | — | RO |
| 4418 | 1142 | FA2S10: Holding: Interval Value | FLOAT | — | RO |
| 4420 | 1144 | FA2S11: Holding: Interval Value | FLOAT | — | RO |
| 4422 | 1146 | FA2S12: Holding: Interval Value | FLOAT | — | RO |
| 4424 | 1148 | FA2S13: Holding: Interval Value | FLOAT | — | RO |
| 4426 | 114A | FA2S14: Holding: Interval Value | FLOAT | — | RO |
| 4428 | 114C | FA2S15: Holding: Interval Value | FLOAT | — | RO |
| 4430 | 114E | FA2S16: Holding: Interval Value | FLOAT | — | RO |
| 4432 | 1150 | FA2S17: Holding: Interval Value | FLOAT | — | RO |
| 4434 | 1152 | FA2S18: Holding: Interval Value | FLOAT | — | RO |
| 4436 | 1154 | FA2S19: Holding: Interval Value | FLOAT | — | RO |
| 4438 | 1156 | FA2S20: Holding: Interval Value | FLOAT | — | RO |
| 4440 | 1158 | FA2S21: Holding: Interval Value | FLOAT | — | RO |
| 4442 | 115A | FA2S22: Holding: Interval Value | FLOAT | — | RO |
| 4444 | 115C | FA2S23: Holding: Interval Value | FLOAT | — | RO |
| 4446 | 115E | FA2S24: Holding: Interval Value | FLOAT | — | RO |
| 4448 | 1160 | FA2S25: Holding: Interval Value | FLOAT | — | RO |
| 4450 | 1162 | FA2S26: Holding: Interval Value | FLOAT | — | RO |
| 4452 | 1164 | FA2S27: Holding: Interval Value | FLOAT | — | RO |
| 4454 | 1166 | FA2S28: Holding: Interval Value | FLOAT | — | RO |
| 4456 | 1168 | FA2S29: Holding: Interval Value | FLOAT | — | RO |
| 4458 | 116A | FA2S30: Holding: Interval Value | FLOAT | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------|-----------|-------|--------|
| 4460 | 116C | FA2S31: Holding: Interval Value | FLOAT | — | RO |
| 4462 | 116E | FA2S32: Holding: Interval Value | FLOAT | — | RO |
| 4464 | 1170 | FA2S33: Holding: Interval Value | FLOAT | — | RO |
| 4466 | 1172 | FA2S34: Holding: Interval Value | FLOAT | — | RO |
| 4468 | 1174 | FA2S35: Holding: Interval Value | FLOAT | — | RO |
| 4470 | 1176 | FA2S36: Holding: Interval Value | FLOAT | — | RO |
| 4472 | 1178 | FA2S37: Holding: Interval Value | FLOAT | — | RO |
| 4474 | 117A | FA2S38: Holding: Interval Value | FLOAT | — | RO |
| 4476 | 117C | FA2S39: Holding: Interval Value | FLOAT | — | RO |
| 4478 | 117E | FA2S40: Holding: Interval Value | FLOAT | — | RO |
| 4480 | 1180 | FA2S41: Holding: Interval Value | FLOAT | — | RO |
| 4482 | 1182 | FA2S42: Holding: Interval Value | FLOAT | — | RO |
| 4484 | 1184 | FA2S43: Holding: Interval Value | FLOAT | — | RO |
| 4486 | 1186 | FA2S44: Holding: Interval Value | FLOAT | — | RO |
| 4488 | 1188 | FA2S45: Holding: Interval Value | FLOAT | — | RO |
| 4490 | 118A | FA2S46: Holding: Interval Value | FLOAT | — | RO |
| 4492 | 118C | FA2S47: Holding: Interval Value | FLOAT | — | RO |
| 4494 | 118E | FA2S48: Holding: Interval Value | FLOAT | — | RO |
| 4496 | 1190 | FA2S49: Holding: Interval Value | FLOAT | — | RO |
| 4498 | 1192 | FA2S50: Holding: Interval Value | FLOAT | — | RO |
| 4500 | 1194 | FA2S51: Holding: Interval Value | FLOAT | — | RO |
| 4502 | 1196 | FA2S52: Holding: Interval Value | FLOAT | — | RO |
| 4504 | 1198 | FA2S53: Holding: Interval Value | FLOAT | — | RO |
| 4506 | 119A | FA2S54: Holding: Interval Value | FLOAT | — | RO |
| 4508 | 119C | FA2S55: Holding: Interval Value | FLOAT | — | RO |
| 4510 | 119E | FA2S56: Holding: Interval Value | FLOAT | — | RO |
| 4512 | 11A0 | FA2S57: Holding: Interval Value | FLOAT | — | RO |
| 4514 | 11A2 | FA2S58: Holding: Interval Value | FLOAT | — | RO |
| 4516 | 11A4 | FA2S59: Holding: Interval Value | FLOAT | — | RO |
| 4518 | 11A6 | FA2S60: Holding: Interval Value | FLOAT | — | RO |

Archive 2: Prev Interval Selections (16-bit)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-------|--------|
| 4550 | 11C6 | FA2S1: Holding: Previous Interval Value | FLOAT | — | RO |
| 4552 | 11C8 | FA2S2: Holding: Previous Interval Value | FLOAT | — | RO |
| 4554 | 11CA | FA2S3: Holding: Previous Interval Value | FLOAT | — | RO |
| 4556 | 11CC | FA2S4: Holding: Previous Interval Value | FLOAT | — | RO |
| 4558 | 11CE | FA2S5: Holding: Previous Interval Value | FLOAT | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 4560 | 11D0 | FA2S6: Holding: Previous Interval Value | FLOAT | — | RO |
| 4562 | 11D2 | FA2S7: Holding: Previous Interval Value | FLOAT | — | RO |
| 4564 | 11D4 | FA2S8: Holding: Previous Interval Value | FLOAT | — | RO |
| 4566 | 11D6 | FA2S9: Holding: Previous Interval Value | FLOAT | — | RO |
| 4568 | 11D8 | FA2S10: Holding: Previous Interval Value | FLOAT | — | RO |
| 4570 | 11DA | FA2S11: Holding: Previous Interval Value | FLOAT | — | RO |
| 4572 | 11DC | FA2S12: Holding: Previous Interval Value | FLOAT | — | RO |
| 4574 | 11DE | FA2S13: Holding: Previous Interval Value | FLOAT | — | RO |
| 4576 | 11E0 | FA2S14: Holding: Previous Interval Value | FLOAT | — | RO |
| 4578 | 11E2 | FA2S15: Holding: Previous Interval Value | FLOAT | — | RO |
| 4580 | 11E4 | FA2S16: Holding: Previous Interval Value | FLOAT | — | RO |
| 4582 | 11E6 | FA2S17: Holding: Previous Interval Value | FLOAT | — | RO |
| 4584 | 11E8 | FA2S18: Holding: Previous Interval Value | FLOAT | — | RO |
| 4586 | 11EA | FA2S19: Holding: Previous Interval Value | FLOAT | — | RO |
| 4588 | 11EC | FA2S20: Holding: Previous Interval Value | FLOAT | — | RO |
| 4590 | 11EE | FA2S21: Holding: Previous Interval Value | FLOAT | — | RO |
| 4592 | 11F0 | FA2S22: Holding: Previous Interval Value | FLOAT | — | RO |
| 4594 | 11F2 | FA2S23: Holding: Previous Interval Value | FLOAT | — | RO |
| 4596 | 11F4 | FA2S24: Holding: Previous Interval Value | FLOAT | — | RO |
| 4598 | 11F6 | FA2S25: Holding: Previous Interval Value | FLOAT | — | RO |
| 4600 | 11F8 | FA2S26: Holding: Previous Interval Value | FLOAT | — | RO |
| 4602 | 11FA | FA2S27: Holding: Previous Interval Value | FLOAT | — | RO |
| 4604 | 11FC | FA2S28: Holding: Previous Interval Value | FLOAT | — | RO |
| 4606 | 11FE | FA2S29: Holding: Previous Interval Value | FLOAT | — | RO |
| 4608 | 1200 | FA2S30: Holding: Previous Interval Value | FLOAT | — | RO |
| 4610 | 1202 | FA2S31: Holding: Previous Interval Value | FLOAT | — | RO |
| 4612 | 1204 | FA2S32: Holding: Previous Interval Value | FLOAT | — | RO |
| 4614 | 1206 | FA2S33: Holding: Previous Interval Value | FLOAT | — | RO |
| 4616 | 1208 | FA2S34: Holding: Previous Interval Value | FLOAT | — | RO |
| 4618 | 120A | FA2S35: Holding: Previous Interval Value | FLOAT | — | RO |
| 4620 | 120C | FA2S36: Holding: Previous Interval Value | FLOAT | — | RO |
| 4622 | 120E | FA2S37: Holding: Previous Interval Value | FLOAT | — | RO |
| 4624 | 1210 | FA2S38: Holding: Previous Interval Value | FLOAT | — | RO |
| 4626 | 1212 | FA2S39: Holding: Previous Interval Value | FLOAT | — | RO |
| 4628 | 1214 | FA2S40: Holding: Previous Interval Value | FLOAT | — | RO |
| 4630 | 1216 | FA2S41: Holding: Previous Interval Value | FLOAT | — | RO |
| 4632 | 1218 | FA2S42: Holding: Previous Interval Value | FLOAT | — | RO |
| 4634 | 121A | FA2S43: Holding: Previous Interval Value | FLOAT | — | RO |
| 4636 | 121C | FA2S44: Holding: Previous Interval Value | FLOAT | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 4638 | 121E | FA2S45: Holding: Previous Interval Value | FLOAT | — | RO |
| 4640 | 1220 | FA2S46: Holding: Previous Interval Value | FLOAT | — | RO |
| 4642 | 1222 | FA2S47: Holding: Previous Interval Value | FLOAT | — | RO |
| 4644 | 1224 | FA2S48: Holding: Previous Interval Value | FLOAT | — | RO |
| 4646 | 1226 | FA2S49: Holding: Previous Interval Value | FLOAT | — | RO |
| 4648 | 1228 | FA2S50: Holding: Previous Interval Value | FLOAT | — | RO |
| 4650 | 122A | FA2S51: Holding: Previous Interval Value | FLOAT | — | RO |
| 4652 | 122C | FA2S52: Holding: Previous Interval Value | FLOAT | — | RO |
| 4654 | 122E | FA2S53: Holding: Previous Interval Value | FLOAT | — | RO |
| 4656 | 1230 | FA2S54: Holding: Previous Interval Value | FLOAT | — | RO |
| 4658 | 1232 | FA2S55: Holding: Previous Interval Value | FLOAT | — | RO |
| 4660 | 1234 | FA2S56: Holding: Previous Interval Value | FLOAT | — | RO |
| 4662 | 1236 | FA2S57: Holding: Previous Interval Value | FLOAT | — | RO |
| 4664 | 1238 | FA2S58: Holding: Previous Interval Value | FLOAT | — | RO |
| 4666 | 123A | FA2S59: Holding: Previous Interval Value | FLOAT | — | RO |
| 4668 | 123C | FA2S60: Holding: Previous Interval Value | FLOAT | — | RO |

Triggered Selections (16-bit)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------|-----------|-------|--------|
| 4700 | 125C | TAS1: Holding: Triggered Value | FLOAT | — | RO |
| 4702 | 125E | TAS2: Holding: Triggered Value | FLOAT | — | RO |
| 4704 | 1260 | TAS3: Holding: Triggered Value | FLOAT | — | RO |
| 4706 | 1262 | TAS4: Holding: Triggered Value | FLOAT | — | RO |
| 4708 | 1264 | TAS5: Holding: Triggered Value | FLOAT | — | RO |
| 4710 | 1266 | TAS6: Holding: Triggered Value | FLOAT | — | RO |
| 4712 | 1268 | TAS7: Holding: Triggered Value | FLOAT | — | RO |
| 4714 | 126A | TAS8: Holding: Triggered Value | FLOAT | — | RO |
| 4716 | 126C | TAS9: Holding: Triggered Value | FLOAT | — | RO |
| 4718 | 126E | TAS10: Holding: Triggered Value | FLOAT | — | RO |
| 4720 | 1270 | TAS11: Holding: Triggered Value | FLOAT | — | RO |
| 4722 | 1272 | TAS12: Holding: Triggered Value | FLOAT | — | RO |
| 4724 | 1274 | TAS13: Holding: Triggered Value | FLOAT | — | RO |
| 4726 | 1276 | TAS14: Holding: Triggered Value | FLOAT | — | RO |
| 4728 | 1278 | TAS15: Holding: Triggered Value | FLOAT | — | RO |
| 4730 | 127A | TAS16: Holding: Triggered Value | FLOAT | — | RO |
| 4732 | 127C | TAS17: Holding: Triggered Value | FLOAT | — | RO |
| 4734 | 127E | TAS18: Holding: Triggered Value | FLOAT | — | RO |
| 4736 | 1280 | TAS19: Holding: Triggered Value | FLOAT | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------|-----------|-------|--------|
| 4738 | 1282 | TAS20: Holding: Triggered Value | FLOAT | — | RO |

Prev Triggered Selections (16-bit)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------|-----------|-------|--------|
| 4800 | 12C0 | TAS1: Holding: Triggered Value | FLOAT | — | RO |
| 4802 | 12C2 | TAS2: Holding: Triggered Value | FLOAT | — | RO |
| 4804 | 12C4 | TAS3: Holding: Triggered Value | FLOAT | — | RO |
| 4806 | 12C6 | TAS4: Holding: Triggered Value | FLOAT | — | RO |
| 4808 | 12C8 | TAS5: Holding: Triggered Value | FLOAT | — | RO |
| 4810 | 12CA | TAS6: Holding: Triggered Value | FLOAT | — | RO |
| 4812 | 12CC | TAS7: Holding: Triggered Value | FLOAT | — | RO |
| 4814 | 12CE | TAS8: Holding: Triggered Value | FLOAT | — | RO |
| 4816 | 12D0 | TAS9: Holding: Triggered Value | FLOAT | — | RO |
| 4818 | 12D2 | TAS10: Holding: Triggered Value | FLOAT | — | RO |
| 4820 | 12D4 | TAS11: Holding: Triggered Value | FLOAT | — | RO |
| 4822 | 12D6 | TAS12: Holding: Triggered Value | FLOAT | — | RO |
| 4824 | 12D8 | TAS13: Holding: Triggered Value | FLOAT | — | RO |
| 4826 | 12DA | TAS14: Holding: Triggered Value | FLOAT | — | RO |
| 4828 | 12DC | TAS15: Holding: Triggered Value | FLOAT | — | RO |
| 4830 | 12DE | TAS16: Holding: Triggered Value | FLOAT | — | RO |
| 4832 | 12E0 | TAS17: Holding: Triggered Value | FLOAT | — | RO |
| 4834 | 12E2 | TAS18: Holding: Triggered Value | FLOAT | — | RO |
| 4836 | 12E4 | TAS19: Holding: Triggered Value | FLOAT | — | RO |
| 4838 | 12E6 | TAS20: Holding: Triggered Value | FLOAT | — | RO |

Flow Run 1 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 5001 | 1389 | Flow Run 1: Config: Calculation Period | INT32 | — | RW |
| 5003 | 138B | Flow Run 1: Config: Fluid Calculation Interval | INT32 | — | RW |
| 5005 | 138D | Flow Run 1: Config: Dampening Mode | INT32 | — | RW |
| 5007 | 138F | Flow Run 1: HAccum: Flow Direction | INT32 | — | RO |
| 5009 | 1391 | Flow Run 1: HFluid: Method | INT32 | — | RO |
| 5011 | 1393 | Flow Run 1: HFluid: Override | INT32 | — | RO |
| 5013 | 1395 | Flow Run 1: HFlow: Method | INT32 | — | RO |
| 5015 | 1397 | Flow Run 1: HFlow: Override | INT32 | — | RO |
| 5017 | 1399 | Flow Run 1: HFlow: Installation Parameters | INT32 | — | RO |
| 5019 | 139B | Flow Run 1: HFlow: Meter Tube Material | INT32 | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|-------------------------------------|-----------|-------|--------|
| 5021 | 139D | Flow Run 1: HFlow: Orifice Material | INT32 | — | RO |
| 5023 | 139F | Flow Run 1: HFlow: Tap Type | INT32 | — | RO |
| 5025 | 13A1 | Flow Run 1: HFlow: Tap Location | INT32 | — | RO |

Flow Run 2 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 5101 | 13ED | Flow Run 2: Config: Calculation Period | INT32 | — | RW |
| 5103 | 13EF | Flow Run 2: Config: Fluid Calculation Interval | INT32 | — | RW |
| 5105 | 13F1 | Flow Run 2: Config: Dampening Mode | INT32 | — | RW |
| 5107 | 13F3 | Flow Run 2: HAccum: Flow Direction | INT32 | — | RO |
| 5109 | 13F5 | Flow Run 2: HFluid: Method | INT32 | — | RO |
| 5111 | 13F7 | Flow Run 2: HFluid: Override | INT32 | — | RO |
| 5113 | 13F9 | Flow Run 2: HFlow: Method | INT32 | — | RO |
| 5115 | 13FB | Flow Run 2: HFlow: Override | INT32 | — | RO |
| 5117 | 13FD | Flow Run 2: HFlow: Installation Parameters | INT32 | — | RO |
| 5119 | 13FF | Flow Run 2: HFlow: Meter Tube Material | INT32 | — | RO |
| 5121 | 1401 | Flow Run 2: HFlow: Orifice Material | INT32 | — | RO |
| 5123 | 1403 | Flow Run 2: HFlow: Tap Type | INT32 | — | RO |
| 5125 | 1405 | Flow Run 2: HFlow: Tap Location | INT32 | — | RO |

Flow Direction

| Bit Position | Description |
|--------------|--|
| 0 | Accumulating flow from positive differential pressure or positive uncorrected accumulation |
| 1 | Accumulating flow from negative differential pressure or negative uncorrected accumulation |

Fluid Information Methods

| | | | | | | | | | | | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 |
| LV2 | LV1 | LV0 | DS1 | DS0 | AL2 | AL1 | AL0 | — | SR2 | SR1 | SR0 | SPC | — | TAS | TST |
| 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
| — | HC2 | HC1 | HC0 | ITE | — | — | — | F02 | F01 | F00 | E04 | E03 | E02 | E01 | E00 |

| Value | F02-F00: Fluid Type |
|-------|----------------------------|
| 0 | Gas Mixture |
| 1 | Gas Gross |
| 2 | Fluid Pure Substance |
| 3 | Liquid Hydrocarbon Mixture |
| 4 | Liquid Gross |

| | |
|---|--|
| 5 | Liquid Composite |
| Value | E04-E00: Equation of State |
| Fluid Type: Gas Mixture | |
| 0 – 1 | — |
| 2 | AGA 8, Gas, Detailed (1994) |
| 3 | Gerg 08, Gas |
| 4 – 8 | — |
| Fluid Type: Gas Gross | |
| 0 | GCN |
| 1 – 9 | — |
| Fluid Type: Liquid Hydrocarbon Mixture | |
| 0 | — |
| 1 | Gerg 08, Liquid |
| Fluid Type: Liquid Gross | |
| 0 | API MPMS, Chapter 11 |
| 1 | API MPMS, Chapter 11 - Basic Densitometer |
| 2 | API MPMS, Chapter 11 - Net Oil Computer |
| 3 | API MPMS, Chapter 11 - Crude Densitometer |
| 4 – 5 | — |
| Value | TST: GPA Test Tables |
| 0 | — |
| 1 | GPA:1992 |
| Value | TAS: GPA Tables Source |
| 0 | Internal GPA table used |
| 1 | — |
| Value | SPC: Secondary Phase Conditions |
| 0 | Configured Secondary Phase Densities at Base Conditions |
| 1 | Configured Secondary Phase Densities at Flowing Conditions |
| Value | SR2-SR0: SGERG Reference Conditions |
| 0 | US, AGA (American Gas Association) |
| 1 | GPA (Gas Processors Association) |
| 2 | Canada, Nova/TCPL |
| 3 | France, Japan |
| 4 | UK, Australia, Ireland |
| 5 | Russia |
| 6 | Brazil |
| 7 | Belgium, Austria, Denmark, Germany, Netherlands, Italy |
| Value | AL3-AL0: API Liquid Indication |
| 0 | Crude Oil |
| 1 | Generalized Refined Products |
| 2 | Lubricating Oil |
| 3 | Special Products (API MPMS Ch. 11.1-2004, Table 6C) |
| 4 | — |

| Value | DS1-DS0: Liquid Density Source |
|-------|---|
| 0 | Absolute Density |
| 1 | Specific Gravity |
| 2 | API Gravity |
| Value | LV2-LV0: Liquid Volume Correction Method |
| 0 | None |
| 1 | BS&W Base Conditions |
| 2 | BS&W Live Flowing Conditions |
| 3 | BS&W Calculated Flowing Conditions |
| 4 | BS&W User Flowing Conditions |
| 5 | BS&W Live Base Conditions |
| Value | HC2-HC0: Heating Calculation Method |
| 0 | Old AGA Report No. 5, per AGA 3:3 (1992) Appendix F, Scannner 2000 Method |
| 1 | GPA-2172, per AGA 8 (1994) Appendix C.4 |
| 2 | AGA Report No. 5 (2009) |
| Value | ITE: Isentropic Exponent Calculation Method |
| 0 | Ideal Gas Isentropic Exponent (Polling & Prausnitz) |
| 1 | Equation of State Specific Calculation of Isentropic Exponent |

Fluid Information Override Definitions

| Bit Position | Description |
|--------------|---------------------------------------|
| 0 | Flowing Mass Density |
| 1 | Flowing Viscosity |
| 2 | Mass Combustion Heating Value |
| 3 | Gross Volume Combustion Heating Value |
| 4 | Isentropic Exponent |
| 5 | Combustion Reference Temperature |
| 6 | Generic Gas |
| 7 | Liquid API Alpha |
| 8 | Gas Fraction Live Input |
| 9 | Oil Fraction Live Input |
| 10 | BS&W Live Input |

IF97 Region Override

| Region | Description | Hexadecimal Value |
|--------|------------------------------------|-------------------|
| — | None | 0x00000000 |
| 1 | Water | 0x00010000 |
| 2 | Dry Steam | 0x00020000 |
| 3 | Critical Range | 0x00030000 |
| 4 | Saturation Line | 0x00040000 |
| 5 | High-temperature Superheated Steam | 0x00050000 |

Flow Information Methods

| | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|
| 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 |
| — | | | | | | | | | | | | MC3 | MC2 | MC1 | MC0 |

| | | | | | | | | | | | | | | | |
|----|----|----|----|----|-----|-----|-----|---|---|---|-----|-----|-----|-----|-----|
| 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
| — | | | | | PT2 | PT1 | PT0 | — | | | FM4 | FM3 | FM2 | FM1 | FM0 |

| Value | FM4-FM0: Flow Rate Method for Differential Producer Type |
|---------|--|
| 0 | Classical Venturi |
| 1 | Cone, Spoolpiece |
| 2 | Cone, Wafer |
| 3 – 5 | — |
| 6 | Orifice NEL/TC28 (ISO-5167: Orifice) |
| 7 | — |
| 8 | Orifice (AGA 3:1992) |
| 9 | Orifice (AGA 3:2012) |
| 10 – 15 | — |
| 16 | ASME Small-bore Orifice |
| 17 – 20 | — |
| Value | FM4-FM0: Flow Rate Method for Accumulation Producer Type |
| 0 | Volume Pulse Accumulation, AGA-7 (2006) |
| 1 | Mass Pulse Accumulation |
| Value | PT2-PT0: Producer Type |
| 0 | Differential |
| 1 | Accumulation |
| 2 | — |
| Value | MC3-MC0: Multiphase Correction Algorithm |
| 0 | No correction |
| 1 | User-entered Correction Factor |
| 2 | Chisholm-Steven Orifice Meter |
| 3 | Chisholm-Steven Cone Meter |

Flow Information Override Definitions

| Bit Position | Description |
|--------------|------------------------------|
| 0 | D Alpha |
| 1 | d Alpha |
| 2 | Beta Ratio |
| 3 | Discharge Coefficient |
| 4 | Meter Factor |
| 5 | Annubar Coefficients |
| 6 | Multiphase Correction Factor |

Flow Installation Parameters

| | | | | | | | | | | | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 |
| — | | | MT4 | MT3 | MT2 | MT1 | MT0 | TOR | TLO | TT1 | TT0 | EXT | — | | AUS |

| | | | | | | | | | | | | | | | |
|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
| — | | | WPH | dM3 | dM2 | dM1 | dM0 | — | | | | DM3 | DM2 | DM1 | DM0 |

| Value | dM3-dM0: Plate (d) Metal Type DM3-DM0: Pipe (D) Metal Type |
|--|---|
| 0 | Zero Thermal Expansion |
| 1 | Generic Carbon Steel |
| 2 | Generic 300-Series Stainless Steel |
| 3 | 304, 304H Stainless Steel (ASTM A312-304) |
| 4 | 316, 316H Stainless Steel (ASTM A312-316) |
| 5 | Monel and Related Nickel Alloys |
| 6 | Monel 400 |
| 7 | Yellow Brass (ASTM B36, B134, B135) |
| 8 | Inconel-X, Annealed |
| 9 | Pure Nickel |
| 10 | Hastelloy C-22 |
| 11 | Titanium, 20 °C to 100 °C |
| Value | AUS: Expansion Coefficient Source |
| 0 | Coefficients are based on SI Tables |
| 1 | Coefficients are based on US Customary Tables |
| Value | WPH: Weep Hole Installed |
| 0 | No weep hole |
| 1 | Weep hole installed |
| Value | TT1-TT0: Tap Type |
| 0 | Corner |
| 1 | Flange |
| 2 | D and D2 |
| Value | TLO: Static Tap Location |
| 0 | Upstream |
| 1 | Downstream |
| Value | TOR: Tap Orientation |
| 0 | deg90 (Eccentric Orifice Only) |
| 1 | deg180 |
| Value | EXT: Extended Temperature Range |
| 0 | Fixed Alpha |
| 1 | Alpha corrected to higher temperatures |
| Value | MT4-MT0: Meter Type Information |
| <i>Meter Type: Classical Herschell Venturi</i> | |
| 0 | Vcalibrated |
| 1 – 3 | — |

Flow Run 1 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|---------|--------|
| 5201 | 1451 | Flow Run 1: HAccum: Daily Run Time | FP | s | RO |
| 5203 | 1453 | Flow Run 1: HAccum: Interval Run Time | FP | s | RO |
| 5205 | 1455 | Flow Run 1: HAccum: Triggered Run Time | FP | s | RO |
| 5207 | 1457 | Flow Run 1: HAccum: Previous Daily Run Time | FP | s | RO |
| 5209 | 1459 | Flow Run 1: HAccum: Previous Interval Run Time | FP | s | RO |
| 5211 | 145B | Flow Run 1: HAccum: Previous Triggered Run Time | FP | s | RO |
| 5213 | 145D | Flow Run 1: HAccum: Gas Apparent Mass Grand Total | FP | lbm | RO |
| 5215 | 145F | Flow Run 1: HAccum: Gas Apparent Mass Flow Rate | FP | lbm/day | RO |
| 5217 | 1461 | Flow Run 1: HAccum: Gas Apparent Mass Daily Total | FP | lbm | RO |
| 5219 | 1463 | Flow Run 1: HAccum: Gas Apparent Mass Interval Total | FP | lbm | RO |
| 5221 | 1465 | Flow Run 1: HAccum: Gas Apparent Mass Triggered Total | FP | lbm | RO |
| 5223 | 1467 | Flow Run 1: HAccum: Gas Apparent Mass Previous Daily Total | FP | lbm | RO |
| 5225 | 1469 | Flow Run 1: HAccum: Gas Apparent Mass Previous Interval Total | FP | lbm | RO |
| 5227 | 146B | Flow Run 1: HAccum: Gas Apparent Mass Previous Triggered Total | FP | lbm | RO |
| 5229 | 146D | Flow Run 1: HAccum: Gas Volume Grand Total | FP | MCF | RO |
| 5231 | 146F | Flow Run 1: HAccum: Gas Volume Flow Rate | FP | MCF/day | RO |
| 5233 | 1471 | Flow Run 1: HAccum: Gas Volume Daily Total | FP | MCF | RO |
| 5235 | 1473 | Flow Run 1: HAccum: Gas Volume Interval Total | FP | MCF | RO |
| 5237 | 1475 | Flow Run 1: HAccum: Gas Volume Triggered Total | FP | MCF | RO |
| 5239 | 1477 | Flow Run 1: HAccum: Gas Volume Previous Daily Total | FP | MCF | RO |
| 5241 | 1479 | Flow Run 1: HAccum: Gas Volume Previous Interval Total | FP | MCF | RO |
| 5243 | 147B | Flow Run 1: HAccum: Gas Volume Previous Triggered Total | FP | MCF | RO |
| 5245 | 147D | Flow Run 1: HAccum: Gas Mass Grand Total | FP | lbm | RO |
| 5247 | 147F | Flow Run 1: HAccum: Gas Mass Flow Rate | FP | lbm/day | RO |
| 5249 | 1481 | Flow Run 1: HAccum: Gas Mass Daily Total | FP | lbm | RO |
| 5251 | 1483 | Flow Run 1: HAccum: Gas Mass Interval Total | FP | lbm | RO |
| 5253 | 1485 | Flow Run 1: HAccum: Gas Mass Triggered Total | FP | lbm | RO |
| 5255 | 1487 | Flow Run 1: HAccum: Gas Mass Previous Daily Total | FP | lbm | RO |
| 5257 | 1489 | Flow Run 1: HAccum: Gas Mass Previous Interval Total | FP | lbm | RO |
| 5259 | 148B | Flow Run 1: HAccum: Gas Mass Previous Triggered Total | FP | lbm | RO |
| 5261 | 148D | Flow Run 1: HAccum: Gas Energy Grand Total | FP | Btu | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|---------|--------|
| 5263 | 148F | Flow Run 1: HAccum: Gas Energy Flow Rate | FP | Btu/day | RO |
| 5265 | 1491 | Flow Run 1: HAccum: Gas Energy Daily Total | FP | Btu | RO |
| 5267 | 1493 | Flow Run 1: HAccum: Gas Energy Interval Total | FP | Btu | RO |
| 5269 | 1495 | Flow Run 1: HAccum: Gas Energy Triggered Total | FP | Btu | RO |
| 5271 | 1497 | Flow Run 1: HAccum: Gas Energy Previous Daily Total | FP | Btu | RO |
| 5273 | 1499 | Flow Run 1: HAccum: Gas Energy Previous Interval Total | FP | Btu | RO |
| 5275 | 149B | Flow Run 1: HAccum: Gas Energy Previous Triggered Total | FP | Btu | RO |
| 5277 | 149D | Flow Run 1: HAccum: Liquid Oil Volume Grand Total | FP | bbl | RO |
| 5279 | 149F | Flow Run 1: HAccum: Liquid Oil Volume Flow Rate | FP | bbl/day | RO |
| 5281 | 14A1 | Flow Run 1: HAccum: Liquid Oil Volume Daily Total | FP | bbl | RO |
| 5283 | 14A3 | Flow Run 1: HAccum: Liquid Oil Volume Interval Total | FP | bbl | RO |
| 5285 | 14A5 | Flow Run 1: HAccum: Liquid Oil Volume Triggered Total | FP | bbl | RO |
| 5287 | 14A7 | Flow Run 1: HAccum: Liquid Oil Volume Previous Daily Total | FP | bbl | RO |
| 5289 | 14A9 | Flow Run 1: HAccum: Liquid Oil Volume Previous Interval Total | FP | bbl | RO |
| 5291 | 14AB | Flow Run 1: HAccum: Liquid Oil Volume Previous Triggered Total | FP | bbl | RO |
| 5293 | 14AD | Flow Run 1: HAccum: Liquid Oil Net Volume Grand Total | FP | bbl | RO |
| 5295 | 14AF | Flow Run 1: HAccum: Liquid Oil Net Volume Flow Rate | FP | bbl/day | RO |
| 5297 | 14B1 | Flow Run 1: HAccum: Liquid Oil Net Volume Daily Total | FP | bbl | RO |
| 5299 | 14B3 | Flow Run 1: HAccum: Liquid Oil Net Volume Interval Total | FP | bbl | RO |
| 5301 | 14B5 | Flow Run 1: HAccum: Liquid Oil Net Volume Triggered Total | FP | bbl | RO |
| 5303 | 14B7 | Flow Run 1: HAccum: Liquid Oil Net Volume Previous Daily Total | FP | bbl | RO |
| 5305 | 14B9 | Flow Run 1: HAccum: Liquid Oil Net Volume Previous Interval Total | FP | bbl | RO |
| 5307 | 14BB | Flow Run 1: HAccum: Liquid Oil Net Volume Previous Triggered Total | FP | bbl | RO |
| 5309 | 14BD | Flow Run 1: HAccum: Liquid Oil Mass Grand Total | FP | lbm | RO |
| 5311 | 14BF | Flow Run 1: HAccum: Liquid Oil Mass Flow Rate | FP | lbm/day | RO |
| 5313 | 14C1 | Flow Run 1: HAccum: Liquid Oil Mass Daily Total | FP | lbm | RO |
| 5315 | 14C3 | Flow Run 1: HAccum: Liquid Oil Mass Interval Total | FP | lbm | RO |
| 5317 | 14C5 | Flow Run 1: HAccum: Liquid Oil Mass Triggered Total | FP | lbm | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|---------------------|--------|
| 5319 | 14C7 | Flow Run 1: HAccum: Liquid Oil Mass Previous Daily Total | FP | lbm | RO |
| 5321 | 14C9 | Flow Run 1: HAccum: Liquid Oil Mass Previous Interval Total | FP | lbm | RO |
| 5323 | 14CB | Flow Run 1: HAccum: Liquid Oil Mass Previous Triggered Total | FP | lbm | RO |
| 5325 | 14CD | Flow Run 1: HAccum: Liquid Water Volume Grand Total | FP | bbl | RO |
| 5327 | 14CF | Flow Run 1: HAccum: Liquid Water Volume Flow Rate | FP | bbl/day | RO |
| 5329 | 14D1 | Flow Run 1: HAccum: Liquid Water Volume Daily Total | FP | bbl | RO |
| 5331 | 14D3 | Flow Run 1: HAccum: Liquid Water Volume Interval Total | FP | bbl | RO |
| 5333 | 14D5 | Flow Run 1: HAccum: Liquid Water Volume Triggered Total | FP | bbl | RO |
| 5335 | 14D7 | Flow Run 1: HAccum: Liquid Water Volume Previous Daily Total | FP | bbl | RO |
| 5337 | 14D9 | Flow Run 1: HAccum: Liquid Water Volume Previous Interval Total | FP | bbl | RO |
| 5339 | 14DB | Flow Run 1: HAccum: Liquid Water Volume Previous Triggered Total | FP | bbl | RO |
| 5341 | 14DD | Flow Run 1: HAccum: Liquid Water Mass Grand Total | FP | lbm | RO |
| 5343 | 14DF | Flow Run 1: HAccum: Liquid Water Mass Flow Rate | FP | lbm/day | RO |
| 5345 | 14E1 | Flow Run 1: HAccum: Liquid Water Mass Daily Total | FP | lbm | RO |
| 5347 | 14E3 | Flow Run 1: HAccum: Liquid Water Mass Interval Total | FP | lbm | RO |
| 5349 | 14E5 | Flow Run 1: HAccum: Liquid Water Mass Triggered Total | FP | lbm | RO |
| 5351 | 14E7 | Flow Run 1: HAccum: Liquid Water Mass Previous Daily Total | FP | lbm | RO |
| 5353 | 14E9 | Flow Run 1: HAccum: Liquid Water Mass Previous Interval Total | FP | lbm | RO |
| 5355 | 14EB | Flow Run 1: HAccum: Liquid Water Mass Previous Triggered Total | FP | lbm | RO |
| 5357 | 14ED | Flow Run 1: HFluid: Pseudocritical Pressure | FP | psia | RO |
| 5359 | 14EF | Flow Run 1: HFluid: Pseudocritical Temperature | FP | °F | RO |
| 5361 | 14F1 | Flow Run 1: HFluid: Pitzer Acentric Factor | FP | — | RO |
| 5363 | 14F3 | Flow Run 1: HFluid: Ideal Absolute Viscosity | FP | lbm/ft·s | RO |
| 5365 | 14F5 | Flow Run 1: HFluid: Molar Mass | FP | kg/kg·mol | RO |
| 5367 | 14F7 | Flow Run 1: HFluid: Fuel H to C Ratio | FP | — | RO |
| 5369 | 14F9 | Flow Run 1: HFluid: Base Temperature | FP | °F | RO |
| 5371 | 14FB | Flow Run 1: HFluid: Base Pressure Absolute | FP | psia | RO |
| 5373 | 14FD | Flow Run 1: HFluid: Gas Base Density | FP | lbm/ft ³ | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------------------|--------|
| 5375 | 14FF | Flow Run 1: HFluid: Gas Base Viscosity | FP | lbm/ft·s | RO |
| 5377 | 1501 | Flow Run 1: HFluid: Gas Base Molar Density | FP | kg·mol/m ³ | RO |
| 5379 | 1503 | Flow Run 1: HFluid: Gas Base Compressibility Factor | FP | — | RO |
| 5381 | 1505 | Flow Run 1: HFluid: Flowing Temperature | FP | °F | RO |
| 5383 | 1507 | Flow Run 1: HFluid: Flowing Pressure Absolute | FP | psia | RO |
| 5385 | 1509 | Flow Run 1: HFluid: Gas Flowing Density | FP | lbm/ft ³ | RO |
| 5387 | 150B | Flow Run 1: HFluid: Gas Flowing Viscosity | FP | lbm/ft·s | RO |
| 5389 | 150D | Flow Run 1: HFluid: Gas Flowing Molar Density | FP | kg·mol/m ³ | RO |
| 5391 | 150F | Flow Run 1: HFluid: Gas Flowing Compressibility Factor | FP | — | RO |
| 5393 | 1511 | Flow Run 1: HFluid: Air Density | FP | lbm/ft ³ | RO |
| 5395 | 1513 | Flow Run 1: HFluid: Air Molar Density | FP | kg·mol/m ³ | RO |
| 5397 | 1515 | Flow Run 1: HFluid: Combustion Reference Temperature | FP | °F | RO |
| 5399 | 1517 | Flow Run 1: HFluid: Molar Combustion Heating Value 25 C | FP | MMBtu/lb·mol | RO |
| 5401 | 1519 | Flow Run 1: HFluid: Molar Combustion Heating Value | FP | MMBtu/lb·mol | RO |
| 5403 | 151B | Flow Run 1: HFluid: Mass Combustion Heating Value | FP | MMBtu/lbm | RO |
| 5405 | 151D | Flow Run 1: HFluid: Gross Volume Combustion Heating Value | FP | MMBtu/ft ³ | RO |
| 5407 | 151F | Flow Run 1: HFluid: User Mass Combustion Heating Value | FP | MMBtu/lbm | RO |
| 5409 | 1521 | Flow Run 1: HFluid: User Gross Volume Combustion Heating Value | FP | MMBtu/ft ³ | RO |
| 5411 | 1523 | Flow Run 1: HFluid: Vapor Pressure Of Water | FP | psia | RO |
| 5413 | 1525 | Flow Run 1: HFluid: Net Volume Combustion Heating Value | FP | MMBtu/ft ³ | RO |
| 5415 | 1527 | Flow Run 1: HFluid: Wobbe Index | FP | — | RO |
| 5417 | 1529 | Flow Run 1: HFluid: Motor Octane Number Linear | FP | — | RO |
| 5419 | 152B | Flow Run 1: HFluid: Motor Octane Number CARB | FP | — | RO |
| 5421 | 152D | Flow Run 1: HFluid: Methane Number Linear | FP | — | RO |
| 5423 | 152F | Flow Run 1: HFluid: Methane Number CARB | FP | — | RO |
| 5425 | 1531 | Flow Run 1: HFluid: Heat Of Vaporization Of Water | FP | Btu | RO |
| 5427 | 1533 | Flow Run 1: HFluid: Enthalpy Change Of Vapor Water | FP | Btu | RO |
| 5429 | 1535 | Flow Run 1: HFluid: Enthalpy Change Of Liquid Water | FP | Btu | RO |
| 5431 | 1537 | Flow Run 1: HFluid: Isentropic Exponent | FP | — | RO |
| 5433 | 1539 | Flow Run 1: HFluid: Joule Thompson Coefficient | FP | — | RO |
| 5435 | 153B | Flow Run 1: HFluid: Enthalpy Composite | FP | MMBtu/lbm | RO |
| 5437 | 153D | Flow Run 1: HFluid: Gross CH Pseudocomponent | FP | — | RO |
| 5439 | 153F | Flow Run 1: HFluid: Gross Carbon Dioxide | FP | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|---------------------|--------|
| 5441 | 1541 | Flow Run 1: HFluid: Gross Nitrogen | FP | — | RO |
| 5443 | 1543 | Flow Run 1: HFluid: Gross Carbon Monoxide | FP | — | RO |
| 5445 | 1545 | Flow Run 1: HFluid: Gross Hydrogen | FP | — | RO |
| 5447 | 1547 | Flow Run 1: HFluid: Gross Specific Gravity | FP | — | RO |
| 5449 | 1549 | Flow Run 1: HFluid: Liquid Base Viscosity | FP | lbm/ft·s | RO |
| 5451 | 154B | Flow Run 1: HFluid: Liquid Flowing Viscosity | FP | lbm/ft·s | RO |
| 5453 | 154D | Flow Run 1: HFluid: Liquid Alpha | FP | 1/°F | RO |
| 5455 | 154F | Flow Run 1: HFluid: Liquid Equilibrium Vapor Pressure | FP | psia | RO |
| 5457 | 1551 | Flow Run 1: HFluid: Correction For Temperature On Liquid | FP | — | RO |
| 5459 | 1553 | Flow Run 1: HFluid: Correction For Pressure On Liquid | FP | — | RO |
| 5461 | 1555 | Flow Run 1: HFluid: Composite Correction On Liquid | FP | — | RO |
| 5463 | 1557 | Flow Run 1: HFluid: Gas To Liquid Volume Ratio | FP | — | RO |
| 5465 | 1559 | Flow Run 1: HFluid: Liquid Oil Mass Fraction | FP | — | RO |
| 5467 | 155B | Flow Run 1: HFluid: Liquid Shrinkage Factor | FP | — | RO |
| 5469 | 155D | Flow Run 1: HFluid: Liquid BSW | FP | % | RO |
| 5471 | 155F | Flow Run 1: HFluid: Liquid Oil Base Density | FP | lbm/ft ³ | RO |
| 5473 | 1561 | Flow Run 1: HFluid: Liquid Oil Flowing Density | FP | lbm/ft ³ | RO |
| 5475 | 1563 | Flow Run 1: HFluid: Liquid Water Base Density | FP | lbm/ft ³ | RO |
| 5477 | 1565 | Flow Run 1: HFluid: Liquid Water Flowing Density | FP | lbm/ft ³ | RO |
| 5479 | 1567 | Flow Run 1: HFluid: Liquid Composite Flowing Density | FP | lbm/ft ³ | RO |
| 5481 | 1569 | Flow Run 1: HFlow: Reference Orifice Diameter | FP | inch | RO |
| 5483 | 156B | Flow Run 1: HFlow: Reference Meter Tube Inside Diameter | FP | inch | RO |
| 5485 | 156D | Flow Run 1: HFlow: Reference Orifice Temperature | FP | °F | RO |
| 5487 | 156F | Flow Run 1: HFlow: Reference Meter Tube Temperature | FP | °F | RO |
| 5489 | 1571 | Flow Run 1: HFlow: Orifice Alpha | FP | 1/°F | RO |
| 5491 | 1573 | Flow Run 1: HFlow: Meter Tube Alpha | FP | 1/°F | RO |
| 5493 | 1575 | Flow Run 1: HFlow: Flowing Orifice Diameter | FP | inch | RO |
| 5495 | 1577 | Flow Run 1: HFlow: Flowing Meter Tube Inside Diameter | FP | inch | RO |
| 5497 | 1579 | Flow Run 1: HFlow: Flowing Weep Hole Diameter | FP | inch | RO |
| 5499 | 157B | Flow Run 1: HFlow: Weep Hole Adjustment Factor | FP | — | RO |
| 5501 | 157D | Flow Run 1: HFlow: Flowing Beta Ratio | FP | — | RO |
| 5503 | 157F | Flow Run 1: HFlow: Flowing Discharge Coefficient | FP | — | RO |
| 5505 | 1581 | Flow Run 1: HFlow: Flowing Meter Factor | FP | — | RO |
| 5507 | 1583 | Flow Run 1: HFlow: Annubar C1 Coefficient | FP | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|----------|--------|
| 5509 | 1585 | Flow Run 1: HFlow: Annubar C2 Coefficient | FP | — | RO |
| 5511 | 1587 | Flow Run 1: HFlow: Wedge Calibration Factor | FP | — | RO |
| 5513 | 1589 | Flow Run 1: HFlow: Flowing Differential Pressure | FP | "H2O@68F | RO |
| 5515 | 158B | Flow Run 1: HFlow: Flowing Temperature | FP | °F | RO |
| 5517 | 158D | Flow Run 1: HFlow: Flowing Upstream Pressure | FP | psia | RO |
| 5519 | 158F | Flow Run 1: HFlow: Flowing Square Root Of Diff Pres | FP | — | RO |
| 5521 | 1591 | Flow Run 1: HFlow: Uncorrected Accumulation | FP | — | RO |
| 5523 | 1593 | Flow Run 1: HFlow: Stability Index | FP | — | RO |
| 5525 | 1595 | Flow Run 1: HFlow: Reynolds Number Pipe | FP | — | RO |
| 5527 | 1597 | Flow Run 1: HFlow: Expansion Factor | FP | — | RO |
| 5529 | 1599 | Flow Run 1: HFlow: Velocity Of Approach Factor | FP | — | RO |
| 5531 | 159B | Flow Run 1: HFlow: Flow Extension | FP | — | RO |
| 5533 | 159D | Flow Run 1: HFlow: Gas Apparent Mass Flow Rate Flow Weighted | FP | lbm/day | RO |
| 5535 | 159F | Flow Run 1: HFlow: Gas Densimetric Froude Number | FP | — | RO |
| 5537 | 15A1 | Flow Run 1: HFlow: Liquid Apparent Mass Flow Rate Flow Weighted | FP | lbm/day | RO |
| 5539 | 15A3 | Flow Run 1: HFlow: Liquid Apparent Volume Flow Rate Flow Weighted | FP | bbl/day | RO |
| 5541 | 15A5 | Flow Run 1: HFlow: Liquid Densimetric Froude Number | FP | — | RO |
| 5543 | 15A7 | Flow Run 1: HFlow: Lockhart Martinelli Parameter | FP | — | RO |
| 5545 | 15A9 | Flow Run 1: HFlow: Chisholm Coefficient | FP | — | RO |
| 5547 | 15AB | Flow Run 1: HFlow: Multiphase Correction Factor | FP | — | RO |
| 5549 | 15AD | Flow Run 1: HFlow: Gas Mass Flow Rate Flow Weighted | FP | lbm/day | RO |
| 5551 | 15AF | Flow Run 1: HFlow: Gas Volume Flow Rate Flow Weighted | FP | MCF/day | RO |
| 5553 | 15B1 | Flow Run 1: HFlow: Gas Energy Flow Rate Flow Weighted | FP | Btu/day | RO |
| 5555 | 15B3 | Flow Run 1: HFlow: Liquid Oil Mass Flow Rate Flow Weighted | FP | lbm/day | RO |
| 5557 | 15B5 | Flow Run 1: HFlow: Liquid Oil Volume Flow Rate Flow Weighted | FP | bbl/day | RO |
| 5559 | 15B7 | Flow Run 1: HFlow: Liquid Oil Net Volume Flow Rate Flow Weighted | FP | bbl/day | RO |
| 5561 | 15B9 | Flow Run 1: HFlow: Liquid Water Mass Flow Rate Flow Weighted | FP | lbm/day | RO |
| 5563 | 15BB | Flow Run 1: HFlow: Liquid Water Volume Flow Rate Flow Weighted | FP | bbl/day | RO |
| 5565 | 15BD | Flow Run 1: HFluid: Gas Specific Gravity | FP | — | RO |
| 5567 | 15BF | Flow Run 1: HFluid: Liquid Oil Base API Gravity | FP | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-------|--------|
| 5569 | 15C1 | Flow Run 1: HFluid: Liquid Oil Base Specific Gravity | FP | — | RO |
| 5571 | 15C3 | Flow Run 1: HFluid: Liquid Oil Flowing API Gravity | FP | — | RO |
| 5573 | 15C5 | Flow Run 1: HFluid: Liquid Oil Flowing Specific Gravity | FP | — | RO |
| 5575 | 15C7 | Flow Run 1: HFluid: Liquid Composite Flowing API Gravity | FP | — | RO |
| 5577 | 15C9 | Flow Run 1: HFluid: Liquid Composite Flowing Specific Gravity | FP | — | RO |
| 5579 | 15CB | Flow Run 1: HFluid: Speed of Sound | FP | m/s | RO |

Flow Run 2 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|---------|--------|
| 5601 | 15E1 | Flow Run 2: HAccum: Daily Run Time | FP | s | RO |
| 5603 | 15E3 | Flow Run 2: HAccum: Interval Run Time | FP | s | RO |
| 5605 | 15E5 | Flow Run 2: HAccum: Polling Run Time | FP | s | RO |
| 5607 | 15E7 | Flow Run 2: HAccum: Previous Daily Run Time | FP | s | RO |
| 5609 | 15E9 | Flow Run 2: HAccum: Previous Interval Run Time | FP | s | RO |
| 5611 | 15EB | Flow Run 2: HAccum: Previous Polling Run Time | FP | s | RO |
| 5613 | 15ED | Flow Run 2: HAccum: Gas Apparent Mass Grand Total | FP | lbm | RO |
| 5615 | 15EF | Flow Run 2: HAccum: Gas Apparent Mass Flow Rate | FP | lbm/day | RO |
| 5617 | 15F1 | Flow Run 2: HAccum: Gas Apparent Mass Daily Total | FP | lbm | RO |
| 5619 | 15F3 | Flow Run 2: HAccum: Gas Apparent Mass Interval Total | FP | lbm | RO |
| 5621 | 15F5 | Flow Run 2: HAccum: Gas Apparent Mass Polling Total | FP | lbm | RO |
| 5623 | 15F7 | Flow Run 2: HAccum: Gas Apparent Mass Previous Daily Total | FP | lbm | RO |
| 5625 | 15F9 | Flow Run 2: HAccum: Gas Apparent Mass Previous Interval Total | FP | lbm | RO |
| 5627 | 15FB | Flow Run 2: HAccum: Gas Apparent Mass Previous Polling Total | FP | lbm | RO |
| 5629 | 15FD | Flow Run 2: HAccum: Gas Volume Grand Total | FP | MCF | RO |
| 5631 | 15FF | Flow Run 2: HAccum: Gas Volume Flow Rate | FP | MCF/day | RO |
| 5633 | 1601 | Flow Run 2: HAccum: Gas Volume Daily Total | FP | MCF | RO |
| 5635 | 1603 | Flow Run 2: HAccum: Gas Volume Interval Total | FP | MCF | RO |
| 5637 | 1605 | Flow Run 2: HAccum: Gas Volume Polling Total | FP | MCF | RO |
| 5639 | 1607 | Flow Run 2: HAccum: Gas Volume Previous Daily Total | FP | MCF | RO |
| 5641 | 1609 | Flow Run 2: HAccum: Gas Volume Previous Interval Total | FP | MCF | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|---------|--------|
| 5643 | 160B | Flow Run 2: HAccum: Gas Volume Previous Polling Total | FP | MCF | RO |
| 5645 | 160D | Flow Run 2: HAccum: Gas Mass Grand Total | FP | lbm | RO |
| 5647 | 160F | Flow Run 2: HAccum: Gas Mass Flow Rate | FP | lbm/day | RO |
| 5649 | 1611 | Flow Run 2: HAccum: Gas Mass Daily Total | FP | lbm | RO |
| 5651 | 1613 | Flow Run 2: HAccum: Gas Mass Interval Total | FP | lbm | RO |
| 5653 | 1615 | Flow Run 2: HAccum: Gas Mass Polling Total | FP | lbm | RO |
| 5655 | 1617 | Flow Run 2: HAccum: Gas Mass Previous Daily Total | FP | lbm | RO |
| 5657 | 1619 | Flow Run 2: HAccum: Gas Mass Previous Interval Total | FP | lbm | RO |
| 5659 | 161B | Flow Run 2: HAccum: Gas Mass Previous Polling Total | FP | lbm | RO |
| 5661 | 161D | Flow Run 2: HAccum: Gas Energy Grand Total | FP | Btu | RO |
| 5663 | 161F | Flow Run 2: HAccum: Gas Energy Flow Rate | FP | Btu/day | RO |
| 5665 | 1621 | Flow Run 2: HAccum: Gas Energy Daily Total | FP | Btu | RO |
| 5667 | 1623 | Flow Run 2: HAccum: Gas Energy Interval Total | FP | Btu | RO |
| 5669 | 1625 | Flow Run 2: HAccum: Gas Energy Polling Total | FP | Btu | RO |
| 5671 | 1627 | Flow Run 2: HAccum: Gas Energy Previous Daily Total | FP | Btu | RO |
| 5673 | 1629 | Flow Run 2: HAccum: Gas Energy Previous Interval Total | FP | Btu | RO |
| 5675 | 162B | Flow Run 2: HAccum: Gas Energy Previous Polling Total | FP | Btu | RO |
| 5677 | 162D | Flow Run 2: HAccum: Liquid Oil Volume Grand Total | FP | bbl | RO |
| 5679 | 162F | Flow Run 2: HAccum: Liquid Oil Volume Flow Rate | FP | bbl/day | RO |
| 5681 | 1631 | Flow Run 2: HAccum: Liquid Oil Volume Daily Total | FP | bbl | RO |
| 5683 | 1633 | Flow Run 2: HAccum: Liquid Oil Volume Interval Total | FP | bbl | RO |
| 5685 | 1635 | Flow Run 2: HAccum: Liquid Oil Volume Polling Total | FP | bbl | RO |
| 5687 | 1637 | Flow Run 2: HAccum: Liquid Oil Volume Previous Daily Total | FP | bbl | RO |
| 5689 | 1639 | Flow Run 2: HAccum: Liquid Oil Volume Previous Interval Total | FP | bbl | RO |
| 5691 | 163B | Flow Run 2: HAccum: Liquid Oil Volume Previous Polling Total | FP | bbl | RO |
| 5693 | 163D | Flow Run 2: HAccum: Liquid Oil Net Volume Grand Total | FP | bbl | RO |
| 5695 | 163F | Flow Run 2: HAccum: Liquid Oil Net Volume Flow Rate | FP | bbl/day | RO |
| 5697 | 1641 | Flow Run 2: HAccum: Liquid Oil Net Volume Daily Total | FP | bbl | RO |
| 5699 | 1643 | Flow Run 2: HAccum: Liquid Oil Net Volume Interval Total | FP | bbl | RO |
| 5701 | 1645 | Flow Run 2: HAccum: Liquid Oil Net Volume Polling Total | FP | bbl | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|---------|--------|
| 5703 | 1647 | Flow Run 2: HAccum: Liquid Oil Net Volume Previous Daily Total | FP | bbl | RO |
| 5705 | 1649 | Flow Run 2: HAccum: Liquid Oil Net Volume Previous Interval Total | FP | bbl | RO |
| 5707 | 164B | Flow Run 2: HAccum: Liquid Oil Net Volume Previous Polling Total | FP | bbl | RO |
| 5709 | 164D | Flow Run 2: HAccum: Liquid Oil Mass Grand Total | FP | lbm | RO |
| 5711 | 164F | Flow Run 2: HAccum: Liquid Oil Mass Flow Rate | FP | lbm/day | RO |
| 5713 | 1651 | Flow Run 2: HAccum: Liquid Oil Mass Daily Total | FP | lbm | RO |
| 5715 | 1653 | Flow Run 2: HAccum: Liquid Oil Mass Interval Total | FP | lbm | RO |
| 5717 | 1655 | Flow Run 2: HAccum: Liquid Oil Mass Triggered Total | FP | lbm | RO |
| 5719 | 1657 | Flow Run 2: HAccum: Liquid Oil Mass Previous Daily Total | FP | lbm | RO |
| 5721 | 1659 | Flow Run 2: HAccum: Liquid Oil Mass Previous Interval Total | FP | lbm | RO |
| 5723 | 165B | Flow Run 2: HAccum: Liquid Oil Mass Previous Triggered Total | FP | lbm | RO |
| 5725 | 165D | Flow Run 2: HAccum: Liquid Water Volume Grand Total | FP | bbl | RO |
| 5727 | 165F | Flow Run 2: HAccum: Liquid Water Volume Flow Rate | FP | bbl/day | RO |
| 5729 | 1661 | Flow Run 2: HAccum: Liquid Water Volume Daily Total | FP | bbl | RO |
| 5731 | 1663 | Flow Run 2: HAccum: Liquid Water Volume Interval Total | FP | bbl | RO |
| 5733 | 1665 | Flow Run 2: HAccum: Liquid Water Volume Triggered Total | FP | bbl | RO |
| 5735 | 1667 | Flow Run 2: HAccum: Liquid Water Volume Previous Daily Total | FP | bbl | RO |
| 5737 | 1669 | Flow Run 2: HAccum: Liquid Water Volume Previous Interval Total | FP | bbl | RO |
| 5739 | 166B | Flow Run 2: HAccum: Liquid Water Volume Previous Triggered Total | FP | bbl | RO |
| 5741 | 166D | Flow Run 2: HAccum: Liquid Water Mass Grand Total | FP | lbm | RO |
| 5743 | 166F | Flow Run 2: HAccum: Liquid Water Mass Flow Rate | FP | lbm/day | RO |
| 5745 | 1671 | Flow Run 2: HAccum: Liquid Water Mass Daily Total | FP | lbm | RO |
| 5747 | 1673 | Flow Run 2: HAccum: Liquid Water Mass Interval Total | FP | lbm | RO |
| 5749 | 1675 | Flow Run 2: HAccum: Liquid Water Mass Triggered Total | FP | lbm | RO |
| 5751 | 1677 | Flow Run 2: HAccum: Liquid Water Mass Previous Daily Total | FP | lbm | RO |
| 5753 | 1679 | Flow Run 2: HAccum: Liquid Water Mass Previous Interval Total | FP | lbm | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------------------|--------|
| 5755 | 167B | Flow Run 2: HAccum: Liquid Water Mass Previous Triggered Total | FP | lbm | RO |
| 5757 | 167D | Flow Run 2: HFluid: Pseudocritical Pressure | FP | psia | RO |
| 5759 | 167F | Flow Run 2: HFluid: Pseudocritical Temperature | FP | °F | RO |
| 5761 | 1681 | Flow Run 2: HFluid: Pitzer Acentric Factor | FP | | RO |
| 5763 | 1683 | Flow Run 2: HFluid: Ideal Absolute Viscosity | FP | lbm/ft·s | RO |
| 5765 | 1685 | Flow Run 2: HFluid: Molar Mass | FP | kg/kg·mol | RO |
| 5767 | 1687 | Flow Run 2: HFluid: Fuel H to C Ratio | FP | | RO |
| 5769 | 1689 | Flow Run 2: HFluid: Base Temperature | FP | °F | RO |
| 5771 | 168B | Flow Run 2: HFluid: Base Pressure Absolute | FP | psia | RO |
| 5773 | 168D | Flow Run 2: HFluid: Gas Base Density | FP | lbm/ft ³ | RO |
| 5775 | 168F | Flow Run 2: HFluid: Gas Base Viscosity | FP | lbm/ft·s | RO |
| 5777 | 1691 | Flow Run 2: HFluid: Gas Base Molar Density | FP | kg·mol/m ³ | RO |
| 5779 | 1693 | Flow Run 2: HFluid: Gas Base Compressibility Factor | FP | — | RO |
| 5781 | 1695 | Flow Run 2: HFluid: Flowing Temperature | FP | °F | RO |
| 5783 | 1697 | Flow Run 2: HFluid: Flowing Pressure Absolute | FP | psia | RO |
| 5785 | 1699 | Flow Run 2: HFluid: Gas Flowing Density | FP | lbm/ft ³ | RO |
| 5787 | 169B | Flow Run 2: HFluid: Gas Flowing Viscosity | FP | lbm/ft·s | RO |
| 5789 | 169D | Flow Run 2: HFluid: Gas Flowing Molar Density | FP | kg·mol/m ³ | RO |
| 5791 | 169F | Flow Run 2: HFluid: Gas Flowing Compressibility Factor | FP | — | RO |
| 5793 | 16A1 | Flow Run 2: HFluid: Air Density | FP | lbm/ft ³ | RO |
| 5795 | 16A3 | Flow Run 2: HFluid: Air Molar Density | FP | kg·mol/m ³ | RO |
| 5797 | 16A5 | Flow Run 2: HFluid: Combustion Reference Temperature | FP | °F | RO |
| 5799 | 16A7 | Flow Run 2: HFluid: Molar Combustion Heating Value 25 C | FP | MMBtu/lb·mol | RO |
| 5801 | 16A9 | Flow Run 2: HFluid: Molar Combustion Heating Value | FP | MMBtu/lb·mol | RO |
| 5803 | 16AB | Flow Run 2: HFluid: Mass Combustion Heating Value | FP | MMBtu/lbm | RO |
| 5805 | 16AD | Flow Run 2: HFluid: Gross Volume Combustion Heating Value | FP | MMBtu/ft ³ | RO |
| 5807 | 16AF | Flow Run 2: HFluid: User Mass Combustion Heating Value | FP | MMBtu/lbm | RO |
| 5809 | 16B1 | Flow Run 2: HFluid: User Gross Volume Combustion Heating Value | FP | MMBtu/ft ³ | RO |
| 5811 | 16B3 | Flow Run 2: HFluid: Vapor Pressure Of Water | FP | psia | RO |
| 5813 | 16B5 | Flow Run 2: HFluid: Net Volume Combustion Heating Value | FP | MMBtu/ft ³ | RO |
| 5815 | 16B7 | Flow Run 2: HFluid: Wobbe Index | FP | — | RO |
| 5817 | 16B9 | Flow Run 2: HFluid: Motor Octane Number Linear | FP | — | RO |
| 5819 | 16BB | Flow Run 2: HFluid: Motor Octane Number CARB | FP | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|---------------------|--------|
| 5821 | 16BD | Flow Run 2: HFluid: Methane Number Linear | FP | — | RO |
| 5823 | 16BF | Flow Run 2: HFluid: Methane Number CARB | FP | — | RO |
| 5825 | 16C1 | Flow Run 2: HFluid: Heat Of Vaporization Of Water | FP | Btu | RO |
| 5827 | 16C3 | Flow Run 2: HFluid: Enthalpy Change Of Vapor Water | FP | Btu | RO |
| 5829 | 16C5 | Flow Run 2: HFluid: Enthalpy Change Of Liquid Water | FP | Btu | RO |
| 5831 | 16C7 | Flow Run 2: HFluid: Isentropic Exponent | FP | — | RO |
| 5833 | 16C9 | Flow Run 2: HFluid: Joule Thompson Coefficient | FP | — | RO |
| 5835 | 16CB | Flow Run 2: HFluid: Enthalpy Composite | FP | MMBtu/lbm | RO |
| 5837 | 16CD | Flow Run 2: HFluid: Gross CH Pseudocomponent | FP | — | RO |
| 5839 | 16CF | Flow Run 2: HFluid: Gross Carbon Dioxide | FP | — | RO |
| 5841 | 16D1 | Flow Run 2: HFluid: Gross Nitrogen | FP | — | RO |
| 5843 | 16D3 | Flow Run 2: HFluid: Gross Carbon Monoxide | FP | — | RO |
| 5845 | 16D5 | Flow Run 2: HFluid: Gross Hydrogen | FP | — | RO |
| 5847 | 16D7 | Flow Run 2: HFluid: Gross Specific Gravity | FP | — | RO |
| 5849 | 16D9 | Flow Run 2: HFluid: Liquid Base Viscosity | FP | lbm/ft·s | RO |
| 5851 | 16DB | Flow Run 2: HFluid: Liquid Flowing Viscosity | FP | lbm/ft·s | RO |
| 5853 | 16DD | Flow Run 2: HFluid: Liquid Alpha | FP | 1/°F | RO |
| 5855 | 16DF | Flow Run 2: HFluid: Liquid Equilibrium Vapor Pressure | FP | psia | RO |
| 5857 | 16E1 | Flow Run 2: HFluid: Correction For Temperature On Liquid | FP | — | RO |
| 5859 | 16E3 | Flow Run 2: HFluid: Correction For Pressure On Liquid | FP | — | RO |
| 5861 | 16E5 | Flow Run 2: HFluid: Composite Correction On Liquid | FP | — | RO |
| 5863 | 16E7 | Flow Run 2: HFluid: Gas To Liquid Volume Ratio | FP | — | RO |
| 5865 | 16E9 | Flow Run 2: HFluid: Liquid Oil Mass Fraction | FP | — | RO |
| 5867 | 16EB | Flow Run 2: HFluid: Liquid Shrinkage Factor | FP | — | RO |
| 5869 | 16ED | Flow Run 2: HFluid: Liquid BSW | FP | — | RO |
| 5871 | 16EF | Flow Run 2: HFluid: Liquid Oil Base Density | FP | lbm/ft ³ | RO |
| 5873 | 16F1 | Flow Run 2: HFluid: Liquid Oil Flowing Density | FP | lbm/ft ³ | RO |
| 5875 | 16F3 | Flow Run 2: HFluid: Liquid Water Base Density | FP | lbm/ft ³ | RO |
| 5877 | 16F5 | Flow Run 2: HFluid: Liquid Water Flowing Density | FP | lbm/ft ³ | RO |
| 5879 | 16F7 | Flow Run 2: HFluid: Liquid Composite Flowing Density | FP | lbm/ft ³ | RO |
| 5881 | 16F9 | Flow Run 2: HFlow: Reference Orifice Diameter | FP | inch | RO |
| 5883 | 16FB | Flow Run 2: HFlow: Reference Meter Tube Inside Diameter | FP | inch | RO |
| 5885 | 16FD | Flow Run 2: HFlow: Reference Orifice Temperature | FP | °F | RO |
| 5887 | 16FF | Flow Run 2: HFlow: Reference Meter Tube Temperature | FP | °F | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|----------|--------|
| 5889 | 1701 | Flow Run 2: HFlow: Orifice Alpha | FP | 1/°F | RO |
| 5891 | 1703 | Flow Run 2: HFlow: Meter Tube Alpha | FP | 1/°F | RO |
| 5893 | 1705 | Flow Run 2: HFlow: Flowing Orifice Diameter | FP | inch | RO |
| 5895 | 1707 | Flow Run 2: HFlow: Flowing Meter Tube Inside Diameter | FP | inch | RO |
| 5897 | 1709 | Flow Run 2: HFlow: Flowing Weep Hole Diameter | FP | inch | RO |
| 5899 | 170B | Flow Run 2: HFlow: Weep Hole Adjustment Factor | FP | — | RO |
| 5901 | 170D | Flow Run 2: HFlow: Flowing Beta Ratio | FP | — | RO |
| 5903 | 170F | Flow Run 2: HFlow: Flowing Discharge Coefficient | FP | — | RO |
| 5905 | 1711 | Flow Run 2: HFlow: Flowing Meter Factor | FP | — | RO |
| 5907 | 1713 | Flow Run 2: HFlow: Annubar C1 Coefficient | FP | — | RO |
| 5909 | 1715 | Flow Run 2: HFlow: Annubar C2 Coefficient | FP | — | RO |
| 5911 | 1717 | Flow Run 2: HFlow: Wedge Calibration Factor | FP | — | RO |
| 5913 | 1719 | Flow Run 2: HFlow: Flowing Differential Pressure | FP | "H2O@68F | RO |
| 5915 | 171B | Flow Run 2: HFlow: Flowing Temperature | FP | °F | RO |
| 5917 | 171D | Flow Run 2: HFlow: Flowing Upstream Pressure | FP | psia | RO |
| 5919 | 171F | Flow Run 2: HFlow: Flowing Square Root Of Diff Pres | FP | — | RO |
| 5921 | 1721 | Flow Run 2: HFlow: Uncorrected Accumulation | FP | — | RO |
| 5923 | 1723 | Flow Run 2: HFlow: Stability Index | FP | — | RO |
| 5925 | 1725 | Flow Run 2: HFlow: Reynolds Number Pipe | FP | — | RO |
| 5927 | 1727 | Flow Run 2: HFlow: Expansion Factor | FP | — | RO |
| 5929 | 1729 | Flow Run 2: HFlow: Velocity Of Approach Factor | FP | — | RO |
| 5931 | 172B | Flow Run 2: HFlow: Flow Extension | FP | — | RO |
| 5933 | 172D | Flow Run 2: HFlow: Gas Apparent Mass Flow Rate Flow Weighted | FP | lbm/day | RO |
| 5935 | 172F | Flow Run 2: HFlow: Gas Densimetric Froude Number | FP | — | RO |
| 5937 | 1731 | Flow Run 2: HFlow: Liquid Apparent Mass Flow Rate Flow Weighted | FP | lbm/day | RO |
| 5939 | 1733 | Flow Run 2: HFlow: Liquid Apparent Volume Flow Rate Flow Weighted | FP | bbl/day | RO |
| 5941 | 1735 | Flow Run 2: HFlow: Liquid Densimetric Froude Number | FP | — | RO |
| 5943 | 1737 | Flow Run 2: HFlow: Lockhart Martinelli Parameter | FP | — | RO |
| 5945 | 1739 | Flow Run 2: HFlow: Chisholm Coefficient | FP | — | RO |
| 5947 | 173B | Flow Run 2: HFlow: Multiphase Correction Factor | FP | — | RO |
| 5949 | 173D | Flow Run 2: HFlow: Gas Mass Flow Rate Flow Weighted | FP | lbm/day | RO |
| 5951 | 173F | Flow Run 2: HFlow: Gas Volume Flow Rate Flow Weighted | FP | MCF/day | RO |
| 5953 | 1741 | Flow Run 2: HFlow: Gas Energy Flow Rate Flow Weighted | FP | Btu/day | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|---------|--------|
| 5955 | 1743 | Flow Run 2: HFlow: Liquid Oil Mass Flow Rate Flow Weighted | FP | lbm/day | RO |
| 5957 | 1745 | Flow Run 2: HFlow: Liquid Oil Volume Flow Rate Flow Weighted | FP | bbl/day | RO |
| 5959 | 1747 | Flow Run 2: HFlow: Liquid Oil Net Volume Flow Rate Flow Weighted | FP | bbl/day | RO |
| 5961 | 1749 | Flow Run 2: HFlow: Liquid Water Mass Flow Rate Flow Weighted | FP | lbm/day | RO |
| 5963 | 174B | Flow Run 2: HFlow: Liquid Water Volume Flow Rate Flow Weighted | FP | bbl/day | RO |
| 5965 | 174D | Flow Run 2: HFluid: Gas Specific Gravity | FP | — | RO |
| 5967 | 174F | Flow Run 2: HFluid: Liquid Oil Base API Gravity | FP | — | RO |
| 5969 | 1751 | Flow Run 2: HFluid: Liquid Oil Base Specific Gravity | FP | — | RO |
| 5971 | 1753 | Flow Run 2: HFluid: Liquid Oil Flowing API Gravity | FP | — | RO |
| 5973 | 1755 | Flow Run 2: HFluid: Liquid Oil Flowing Specific Gravity | FP | — | RO |
| 5975 | 1757 | Flow Run 2: HFluid: Liquid Composite Flowing API Gravity | FP | — | RO |
| 5977 | 1759 | Flow Run 2: HFluid: Liquid Composite Flowing Specific Gravity | FP | — | RO |
| 5979 | 175B | Flow Run 2: HFluid: Speed of Sound | FP | m/s | RO |

Gas Stream 1 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-------|--------|
| 6001 | 1771 | Gas Stream 1: Holding Mixture: Methane | FP | — | RO |
| 6003 | 1773 | Gas Stream 1: Holding Mixture: Nitrogen | FP | — | RO |
| 6005 | 1775 | Gas Stream 1: Holding Mixture: Carbon Dioxide | FP | — | RO |
| 6007 | 1777 | Gas Stream 1: Holding Mixture: Ethane | FP | — | RO |
| 6009 | 1779 | Gas Stream 1: Holding Mixture: Propane | FP | — | RO |
| 6011 | 177B | Gas Stream 1: Holding Mixture: Water | FP | — | RO |
| 6013 | 177D | Gas Stream 1: Holding Mixture: Hydrogen Sulfide | FP | — | RO |
| 6015 | 177F | Gas Stream 1: Holding Mixture: Hydrogen | FP | — | RO |
| 6017 | 1781 | Gas Stream 1: Holding Mixture: Carbon Monoxide | FP | — | RO |
| 6019 | 1783 | Gas Stream 1: Holding Mixture: Oxygen | FP | — | RO |
| 6021 | 1785 | Gas Stream 1: Holding Mixture: Isobutane | FP | — | RO |
| 6023 | 1787 | Gas Stream 1: Holding Mixture: Butane | FP | — | RO |
| 6025 | 1789 | Gas Stream 1: Holding Mixture: Isopentane | FP | — | RO |
| 6027 | 178B | Gas Stream 1: Holding Mixture: NPentane | FP | — | RO |
| 6029 | 178D | Gas Stream 1: Holding Mixture: Hexane | FP | — | RO |
| 6031 | 178F | Gas Stream 1: Holding Mixture: Heptane | FP | — | RO |
| 6033 | 1791 | Gas Stream 1: Holding Mixture: Octane | FP | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 6035 | 1793 | Gas Stream 1: Holding Mixture: Nonane | FP | — | RO |
| 6037 | 1795 | Gas Stream 1: Holding Mixture: Decane | FP | — | RO |
| 6039 | 1797 | Gas Stream 1: Holding Mixture: Helium | FP | — | RO |
| 6041 | 1799 | Gas Stream 1: Holding Mixture: Argon | FP | — | RO |
| 6043 | 179B | Gas Stream 1: Holding Mixture: Neopentane | FP | — | RO |
| 6045 | 179D | Gas Stream 1: Holding Mixture: Isohexane | FP | — | RO |
| 6047 | 179F | Gas Stream 1: Holding Mixture: Methylpentane 3 | FP | — | RO |
| 6049 | 17A1 | Gas Stream 1: Holding Mixture: Neohexane | FP | — | RO |
| 6051 | 17A3 | Gas Stream 1: Holding Mixture: Biisopropyl | FP | — | RO |
| 6053 | 17A5 | Gas Stream 1: Holding Mixture: Ethylene | FP | — | RO |
| 6055 | 17A7 | Gas Stream 1: Holding Mixture: Propylene | FP | — | RO |
| 6057 | 17A9 | Gas Stream 1: Holding Mixture: Methyl Alcohol | FP | — | RO |

Gas Stream 2 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-------|--------|
| 6101 | 17D5 | Gas Stream 2: Holding Mixture: Methane | FP | — | RO |
| 6103 | 17D7 | Gas Stream 2: Holding Mixture: Nitrogen | FP | — | RO |
| 6105 | 17D9 | Gas Stream 2: Holding Mixture: Carbon Dioxide | FP | — | RO |
| 6107 | 17DB | Gas Stream 2: Holding Mixture: Ethane | FP | — | RO |
| 6109 | 17DD | Gas Stream 2: Holding Mixture: Propane | FP | — | RO |
| 6111 | 17DF | Gas Stream 2: Holding Mixture: Water | FP | — | RO |
| 6113 | 17E1 | Gas Stream 2: Holding Mixture: Hydrogen Sulfide | FP | — | RO |
| 6115 | 17E3 | Gas Stream 2: Holding Mixture: Hydrogen | FP | — | RO |
| 6117 | 17E5 | Gas Stream 2: Holding Mixture: Carbon Monoxide | FP | — | RO |
| 6119 | 17E7 | Gas Stream 2: Holding Mixture: Oxygen | FP | — | RO |
| 6121 | 17E8 | Gas Stream 2: Holding Mixture: Isobutane | FP | — | RO |
| 6123 | 17EB | Gas Stream 2: Holding Mixture: Butane | FP | — | RO |
| 6125 | 17ED | Gas Stream 2: Holding Mixture: Isopentane | FP | — | RO |
| 6127 | 17EF | Gas Stream 2: Holding Mixture: NPentane | FP | — | RO |
| 6129 | 17F1 | Gas Stream 2: Holding Mixture: Hexane | FP | — | RO |
| 6131 | 17F3 | Gas Stream 2: Holding Mixture: Heptane | FP | — | RO |
| 6133 | 17F5 | Gas Stream 2: Holding Mixture: Octane | FP | — | RO |
| 6135 | 17F7 | Gas Stream 2: Holding Mixture: Nonane | FP | — | RO |
| 6137 | 17F9 | Gas Stream 2: Holding Mixture: Decane | FP | — | RO |
| 6139 | 17FB | Gas Stream 2: Holding Mixture: Helium | FP | — | RO |
| 6141 | 17FD | Gas Stream 2: Holding Mixture: Argon | FP | — | RO |
| 6143 | 17FF | Gas Stream 2: Holding Mixture: Neopentane | FP | — | RO |
| 6145 | 1801 | Gas Stream 2: Holding Mixture: Isohexane | FP | — | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 6147 | 1803 | Gas Stream 2: Holding Mixture: Methylpentane 3 | FP | — | RO |
| 6149 | 1805 | Gas Stream 2: Holding Mixture: Neohexane | FP | — | RO |
| 6151 | 1807 | Gas Stream 2: Holding Mixture: Biisopropyl | FP | — | RO |
| 6153 | 1809 | Gas Stream 2: Holding Mixture: Ethylene | FP | — | RO |
| 6155 | 180B | Gas Stream 2: Holding Mixture: Propylene | FP | — | RO |
| 6157 | 180D | Gas Stream 2: Holding Mixture: Methyl Alcohol | FP | — | RO |

Input/Output Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-------|--------|
| 6201 | 1839 | Digital Input: Inst Digital Inputs | INT32 | — | RO |
| 6203 | 183B | Digital Input: Daily Digital Inputs | INT32 | — | RO |
| 6205 | 183D | Digital Input: Interval Digital Inputs | INT32 | — | RO |
| 6207 | 183F | Digital Input: Triggered Value | INT32 | — | RO |
| 6209 | 1841 | Digital Input: Previous Daily Digital Inputs | INT32 | — | RO |
| 6211 | 1843 | Digital Input: Previous Interval Digital Inputs | INT32 | — | RO |
| 6213 | 1845 | Digital Input: Previous Triggered Value | INT32 | — | RO |
| 6215 | 1847 | Digital Input: Digital Input 1 | INT32 | — | RO |
| 6217 | 1849 | Digital Input: Digital Input 2 | INT32 | — | RO |
| 6219 | 184B | Digital Input: Digital Input 3 | INT32 | — | RO |
| 6221 | 184D | Digital Input: Digital Input 4 | INT32 | — | RO |
| 6223 | 184F | Digital Input: Digital Input 5 | INT32 | — | RO |
| 6225 | 1851 | Digital Input: Digital Input 6 | INT32 | — | RO |
| 6227 | 1853 | Digital Output 1: Holding: Output | INT32 | — | RO |
| 6229 | 1855 | Digital Output 1: Holding: Pulses | INT32 | — | RO |
| 6231 | 1857 | Digital Output 2: Holding: Output | INT32 | — | RO |
| 6233 | 1859 | Digital Output 2: Holding: Pulses | INT32 | — | RO |
| 6235 | 185B | Digital Output 3: Holding: Output | INT32 | — | RO |
| 6237 | 185D | Digital Output 3: Holding: Pulses | INT32 | — | RO |
| 6239 | 185F | Digital Output 4: Holding: Output | INT32 | — | RO |
| 6241 | 1861 | Digital Output 4: Holding: Pulses | INT32 | — | RO |
| 6243 | 1863 | Digital Output 5: Holding: Output | INT32 | — | RO |
| 6245 | 1865 | Digital Output 5: Holding: Pulses | INT32 | — | RO |
| 6247 | 1867 | Digital Output 6: Holding: Output | INT32 | — | RO |
| 6249 | 1869 | Digital Output 6: Holding: Pulses | INT32 | — | RO |
| 6251 | 186B | Analog Output 1 PID: Holding: Override Enable | INT32 | — | RO |
| 6253 | 186D | Analog Output 2 PID: Holding: Override Enable | INT32 | — | RO |

Digital Output Status

Digital Output: Holding: Output

Digital Output: Holding: Output registers report the state of the corresponding digital output when Digital Input/Output mode is configured as one of the following settings:

- **Alarm.** Selected device alarms.
- **Conditional.** Value above setpoint, value below setpoint, or value out of setpoint range.
- **Programmed.** Time of day output control or controlled output state (via serial port).

Read the corresponding register to determine its output state.

| Value | Output Status |
|-------|---------------|
| 0 | Disabled |
| 1 | Enabled |

Digital Output: Holding: Pulses

Digital Output: Holding: Pulses registers can be used to set the Digital Output state when the Digital Input/Output mode is configured as “Programmed–Controlled Output State (via serial port).”

| Value | Output Status |
|-------------------|---------------|
| 0 | Disabled |
| Any other integer | Enabled |

Write a value to the desired Digital Output: Holding: Pulses register to set the output state. Read the corresponding Digital Output: Holding: Output register to validate the digital output status.

Input/Output Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|----------|--------|
| 6301 | 189D | Differential Pressure: Holding: Inst Reading | FP | "H2O@68F | RO |
| 6303 | 189F | Static Pressure: Holding: Inst Reading | FP | psig | RO |
| 6305 | 18A1 | RTD1: Holding: Inst Reading | FP | °F | RO |
| 6307 | 18A3 | RTD2: Holding: Inst Reading | FP | °F | RO |
| 6309 | 18A5 | Analog 1: Holding: Inst Reading | FP | — | RO |
| 6311 | 18A7 | Analog 1: Holding: Rate Of Change | FP | — | RO |
| 6313 | 18A9 | Analog 2: Holding: Inst Reading | FP | — | RO |
| 6315 | 18AB | Analog 2: Holding: Rate Of Change | FP | — | RO |
| 6317 | 18AD | Analog 3: Holding: Inst Reading | FP | — | RO |
| 6319 | 18AF | Analog 3: Holding: Rate Of Change | FP | — | RO |
| 6321 | 18B1 | Analog 4: Holding: Inst Reading | FP | — | RO |
| 6323 | 18B3 | Analog 4: Holding: Rate Of Change | FP | — | RO |
| 6325 | 18B5 | Pulse Input 1: Holding: Daily Run Time | FP | s | RO |
| 6327 | 18B7 | Pulse Input 1: Holding: Interval Run Time | FP | s | RO |
| 6329 | 18B9 | Pulse Input 1: Holding: Previous Daily Run Time | FP | s | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|------------|--------|
| 6331 | 18BB | Pulse Input 1: Holding: Previous Interval Run Time | FP | s | RO |
| 6333 | 18BD | Pulse Input 2: Holding: Daily Run Time | FP | s | RO |
| 6335 | 18BF | Pulse Input 2: Holding: Interval Run Time | FP | s | RO |
| 6337 | 18C1 | Pulse Input 2: Holding: Previous Daily Run Time | FP | s | RO |
| 6339 | 18C3 | Pulse Input 2: Holding: Previous Interval Run Time | FP | s | RO |
| 6341 | 18C5 | Pulse Input 3: Holding: Daily Run Time | FP | s | RO |
| 6343 | 18C7 | Pulse Input 3: Holding: Interval Run Time | FP | s | RO |
| 6345 | 18C9 | Pulse Input 3: Holding: Previous Daily Run Time | FP | s | RO |
| 6347 | 18CB | Pulse Input 3: Holding: Previous Interval Run Time | FP | s | RO |
| 6349 | 18CD | Pulse Input 1: Holding: Grand Total | FP | bbl | RO |
| 6351 | 18CF | Pulse Input 1: Holding: Flow Rate | FP | bbl/day | RO |
| 6353 | 18D1 | Pulse Input 1: Holding: Daily Total | FP | bbl | RO |
| 6355 | 18D3 | Pulse Input 1: Holding: Interval Total | FP | bbl | RO |
| 6357 | 18D5 | Pulse Input 1: Holding: Previous Daily Total | FP | bbl | RO |
| 6359 | 18D7 | Pulse Input 1: Holding: Previous Interval Total | FP | bbl | RO |
| 6361 | 18D9 | Pulse Input 2: Holding: Grand Total | FP | bbl | RO |
| 6363 | 18DB | Pulse Input 2: Holding: Flow Rate | FP | bbl/day | RO |
| 6365 | 18DD | Pulse Input 2: Holding: Daily Total | FP | bbl | RO |
| 6367 | 18DF | Pulse Input 2: Holding: Interval Total | FP | bbl | RO |
| 6369 | 18E1 | Pulse Input 2: Holding: Previous Daily Total | FP | bbl | RO |
| 6371 | 18E3 | Pulse Input 2: Holding: Previous Interval Total | FP | bbl | RO |
| 6373 | 18E5 | Pulse Input 3: Holding: Grand Total | FP | bbl | RO |
| 6375 | 18E7 | Pulse Input 3: Holding: Flow Rate | FP | bbl/day | RO |
| 6377 | 18E9 | Pulse Input 3: Holding: Daily Total | FP | bbl | RO |
| 6379 | 18EB | Pulse Input 3: Holding: Interval Total | FP | bbl | RO |
| 6381 | 18ED | Pulse Input 3: Holding: Previous Daily Total | FP | bbl | RO |
| 6383 | 18EF | Pulse Input 3: Holding: Previous Interval Total | FP | bbl | RO |
| 6385 | 18F1 | Pulse Input 1: Holding: Frequency | FP | Hz | RO |
| 6387 | 18F3 | Pulse Input 1: Holding: Active K Factor | FP | pulses/gal | RO |
| 6389 | 18F5 | Pulse Input 2: Holding: Frequency | FP | Hz | RO |
| 6391 | 18F7 | Pulse Input 2: Holding: Active K Factor | FP | pulses/gal | RO |
| 6393 | 18F9 | Pulse Input 3: Holding: Frequency | FP | Hz | RO |
| 6395 | 18FB | Pulse Input 3: Holding: Active K Factor | FP | pulses/gal | RO |
| 6397 | 18FD | Analog Output 1: Holding: Output | FP | mA | RO |
| 6399 | 18FF | Analog Output 1 PID: Holding: Process Value Value | FP | — | RO |
| 6401 | 1901 | Analog Output 1 PID: Holding: Static Pressure Value | FP | — | RO |
| 6403 | 1903 | Analog Output 1 PID: Holding: Test Value | FP | — | RO |
| 6405 | 1905 | Analog Output 1 PID: Holding: Output | FP | — | RO |
| 6407 | 1907 | Analog Output 2: Holding: Output | FP | mA | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-------|--------|
| 6409 | 1909 | Analog Output 2 PID: Holding: Process Value Value | FP | — | RO |
| 6411 | 190B | Analog Output 2 PID: Holding: Static Pressure Value | FP | — | RO |
| 6413 | 190D | Analog Output 2 PID: Holding: Test Value | FP | — | RO |
| 6415 | 190F | Analog Output 2 PID: Holding: Output | FP | — | RO |

Slave 1 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------------------|--------|
| 7001 | 1B59 | Slave Device 1: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 7003 | 1B5B | Slave Device 1: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 7005 | 1B5D | Slave Device 1: Flow Run Config: Nitrogen | FP | — | RW |
| 7007 | 1B5F | Slave Device 1: Flow Run Config: Specific Gravity | FP | — | RW |
| 7009 | 1B61 | Slave Device 1: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 7011 | 1B63 | Slave Device 1: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 7013 | 1B65 | Slave Device 1: Flow Run Config: Gas Fraction | FP | — | RW |
| 7015 | 1B67 | Slave Device 1: Flow Run Config: Plate Diameter | FP | inch | RW |
| 7017 | 1B69 | Slave Device 1: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 7019 | 1B6B | Slave Device 1: Flow Run Config: Cone Beta | FP | — | RW |
| 7021 | 1B6D | Slave Device 1: Flow Run Config: Nominal Value | FP | — | RW |
| 7023 | 1B6F | Slave Device 1: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 7025 | 1B71 | Slave Device 1: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 2 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------------------|--------|
| 7051 | 1B8B | Slave Device 2: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 7053 | 1B8D | Slave Device 2: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 7055 | 1B8F | Slave Device 2: Flow Run Config: Nitrogen | FP | — | RW |
| 7057 | 1B91 | Slave Device 2: Flow Run Config: Specific Gravity | FP | — | RW |
| 7059 | 1B93 | Slave Device 2: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 7061 | 1B95 | Slave Device 2: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 7063 | 1B97 | Slave Device 2: Flow Run Config: Gas Fraction | FP | — | RW |
| 7065 | 1B99 | Slave Device 2: Flow Run Config: Plate Diameter | FP | inch | RW |
| 7067 | 1B9B | Slave Device 2: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 7069 | 1B9D | Slave Device 2: Flow Run Config: Cone Beta | FP | — | RW |
| 7071 | 1B9F | Slave Device 2: Flow Run Config: Nominal Value | FP | — | RW |
| 7073 | 1BA1 | Slave Device 2: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 7075 | 1BA3 | Slave Device 2: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 3 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------------------|--------|
| 7101 | 1BBD | Slave Device 3: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 7103 | 1BBF | Slave Device 3: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 7105 | 1BC1 | Slave Device 3: Flow Run Config: Nitrogen | FP | — | RW |
| 7107 | 1BC3 | Slave Device 3: Flow Run Config: Specific Gravity | FP | — | RW |
| 7109 | 1BC5 | Slave Device 3: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 7111 | 1BC7 | Slave Device 3: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 7113 | 1BC9 | Slave Device 3: Flow Run Config: Gas Fraction | FP | — | RW |
| 7115 | 1BCB | Slave Device 3: Flow Run Config: Plate Diameter | FP | inch | RW |
| 7117 | 1BCD | Slave Device 3: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 7119 | 1BCF | Slave Device 3: Flow Run Config: Cone Beta | FP | — | RW |
| 7121 | 1BD1 | Slave Device 3: Flow Run Config: Nominal Value | FP | — | RW |
| 7123 | 1BD3 | Slave Device 3: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 7125 | 1BD5 | Slave Device 3: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 4 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------------------|--------|
| 7151 | 1BEF | Slave Device 4: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 7153 | 1BF1 | Slave Device 4: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 7155 | 1BF3 | Slave Device 4: Flow Run Config: Nitrogen | FP | — | RW |
| 7157 | 1BF5 | Slave Device 4: Flow Run Config: Specific Gravity | FP | — | RW |
| 7159 | 1BF7 | Slave Device 4: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 7161 | 1BF9 | Slave Device 4: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 7163 | 1BFB | Slave Device 4: Flow Run Config: Gas Fraction | FP | — | RW |
| 7165 | 1BFD | Slave Device 4: Flow Run Config: Plate Diameter | FP | inch | RW |
| 7167 | 1BFF | Slave Device 4: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 7169 | 1C01 | Slave Device 4: Flow Run Config: Cone Beta | FP | — | RW |
| 7171 | 1C03 | Slave Device 4: Flow Run Config: Nominal Value | FP | — | RW |
| 7173 | 1C05 | Slave Device 4: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 7175 | 1C07 | Slave Device 4: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 5 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-------|--------|
| 7201 | 1C21 | Slave Device 5: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 7203 | 1C23 | Slave Device 5: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 7205 | 1C25 | Slave Device 5: Flow Run Config: Nitrogen | FP | — | RW |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------------------|--------|
| 7207 | 1C27 | Slave Device 5: Flow Run Config: Specific Gravity | FP | — | RW |
| 7209 | 1C29 | Slave Device 5: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 7211 | 1C2B | Slave Device 5: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 7213 | 1C2D | Slave Device 5: Flow Run Config: Gas Fraction | FP | — | RW |
| 7215 | 1C2F | Slave Device 5: Flow Run Config: Plate Diameter | FP | inch | RW |
| 7217 | 1C31 | Slave Device 5: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 7219 | 1C33 | Slave Device 5: Flow Run Config: Cone Beta | FP | — | RW |
| 7221 | 1C35 | Slave Device 5: Flow Run Config: Nominal Value | FP | — | RW |
| 7223 | 1C37 | Slave Device 5: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 7225 | 1C39 | Slave Device 5: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 6 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------------------|--------|
| 7251 | 1C53 | Slave Device 6: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 7253 | 1C55 | Slave Device 6: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 7255 | 1C57 | Slave Device 6: Flow Run Config: Nitrogen | FP | — | RW |
| 7257 | 1C59 | Slave Device 6: Flow Run Config: Specific Gravity | FP | — | RW |
| 7259 | 1C5B | Slave Device 6: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 7261 | 1C5D | Slave Device 6: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 7263 | 1C5F | Slave Device 6: Flow Run Config: Gas Fraction | FP | — | RW |
| 7265 | 1C61 | Slave Device 6: Flow Run Config: Plate Diameter | FP | inch | RW |
| 7267 | 1C63 | Slave Device 6: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 7269 | 1C65 | Slave Device 6: Flow Run Config: Cone Beta | FP | — | RW |
| 7271 | 1C67 | Slave Device 6: Flow Run Config: Nominal Value | FP | — | RW |
| 7273 | 1C69 | Slave Device 6: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 7275 | 1C6B | Slave Device 6: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 7 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------------------|--------|
| 7301 | 1C85 | Slave Device 7: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 7303 | 1C87 | Slave Device 7: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 7305 | 1C89 | Slave Device 7: Flow Run Config: Nitrogen | FP | — | RW |
| 7307 | 1C8B | Slave Device 7: Flow Run Config: Specific Gravity | FP | — | RW |
| 7309 | 1C8D | Slave Device 7: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 7311 | 1C8F | Slave Device 7: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 7313 | 1C91 | Slave Device 7: Flow Run Config: Gas Fraction | FP | — | RW |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|------------|--------|
| 7315 | 1C93 | Slave Device 7: Flow Run Config: Plate Diameter | FP | inch | RW |
| 7317 | 1C95 | Slave Device 7: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 7319 | 1C97 | Slave Device 7: Flow Run Config: Cone Beta | FP | — | RW |
| 7321 | 1C99 | Slave Device 7: Flow Run Config: Nominal Value | FP | — | RW |
| 7323 | 1C9B | Slave Device 7: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 7325 | 1C9D | Slave Device 7: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 8 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------------------|--------|
| 7351 | 1CB7 | Slave Device 8: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 7353 | 1CB9 | Slave Device 8: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 7355 | 1CBB | Slave Device 8: Flow Run Config: Nitrogen | FP | — | RW |
| 7357 | 1CBD | Slave Device 8: Flow Run Config: Specific Gravity | FP | — | RW |
| 7359 | 1CBF | Slave Device 8: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 7361 | 1CC1 | Slave Device 8: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 7363 | 1CC3 | Slave Device 8: Flow Run Config: Gas Fraction | FP | — | RW |
| 7365 | 1CC5 | Slave Device 8: Flow Run Config: Plate Diameter | FP | inch | RW |
| 7367 | 1CC7 | Slave Device 8: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 7369 | 1CC9 | Slave Device 8: Flow Run Config: Cone Beta | FP | — | RW |
| 7371 | 1CCB | Slave Device 8: Flow Run Config: Nominal Value | FP | — | RW |
| 7373 | 1CCD | Slave Device 8: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 7375 | 1CCF | Slave Device 8: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 9 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------------------|--------|
| 7401 | 1CE9 | Slave Device 9: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 7403 | 1CEB | Slave Device 9: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 7405 | 1CED | Slave Device 9: Flow Run Config: Nitrogen | FP | — | RW |
| 7407 | 1CEF | Slave Device 9: Flow Run Config: Specific Gravity | FP | — | RW |
| 7409 | 1CF1 | Slave Device 9: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 7411 | 1CF3 | Slave Device 9: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 7413 | 1CF5 | Slave Device 9: Flow Run Config: Gas Fraction | FP | — | RW |
| 7415 | 1CF7 | Slave Device 9: Flow Run Config: Plate Diameter | FP | inch | RW |
| 7417 | 1CF9 | Slave Device 9: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 7419 | 1CFB | Slave Device 9: Flow Run Config: Cone Beta | FP | — | RW |
| 7421 | 1CFD | Slave Device 9: Flow Run Config: Nominal Value | FP | — | RW |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|------------|--------|
| 7423 | 1CFF | Slave Device 9: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 7425 | 1D01 | Slave Device 9: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 10 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------------------|--------|
| 7451 | 1D1B | Slave Device 10: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 7453 | 1D1D | Slave Device 10: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 7455 | 1D1F | Slave Device 10: Flow Run Config: Nitrogen | FP | — | RW |
| 7457 | 1D21 | Slave Device 10: Flow Run Config: Specific Gravity | FP | — | RW |
| 7459 | 1D23 | Slave Device 10: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 7461 | 1D25 | Slave Device 10: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 7463 | 1D27 | Slave Device 10: Flow Run Config: Gas Fraction | FP | — | RW |
| 7465 | 1D29 | Slave Device 10: Flow Run Config: Plate Diameter | FP | inch | RW |
| 7467 | 1D2B | Slave Device 10: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 7469 | 1D2D | Slave Device 10: Flow Run Config: Cone Beta | FP | — | RW |
| 7471 | 1D2F | Slave Device 10: Flow Run Config: Nominal Value | FP | — | RW |
| 7473 | 1D31 | Slave Device 10: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 7475 | 1D33 | Slave Device 10: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 11 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------------------|--------|
| 7501 | 1D4D | Slave Device 11: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 7503 | 1D4F | Slave Device 11: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 7505 | 1D51 | Slave Device 11: Flow Run Config: Nitrogen | FP | — | RW |
| 7507 | 1D53 | Slave Device 11: Flow Run Config: Specific Gravity | FP | — | RW |
| 7509 | 1D55 | Slave Device 11: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 7511 | 1D57 | Slave Device 11: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 7513 | 1D59 | Slave Device 11: Flow Run Config: Gas Fraction | FP | — | RW |
| 7515 | 1D5B | Slave Device 11: Flow Run Config: Plate Diameter | FP | inch | RW |
| 7517 | 1D5D | Slave Device 11: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 7519 | 1D5F | Slave Device 11: Flow Run Config: Cone Beta | FP | — | RW |
| 7521 | 1D61 | Slave Device 11: Flow Run Config: Nominal Value | FP | — | RW |
| 7523 | 1D63 | Slave Device 11: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 7525 | 1D65 | Slave Device 11: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 12 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------------------|--------|
| 7551 | 1D7F | Slave Device 12: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 7553 | 1D81 | Slave Device 12: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 7555 | 1D83 | Slave Device 12: Flow Run Config: Nitrogen | FP | — | RW |
| 7557 | 1D85 | Slave Device 12: Flow Run Config: Specific Gravity | FP | — | RW |
| 7559 | 1D87 | Slave Device 12: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 7561 | 1D89 | Slave Device 12: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 7563 | 1D8B | Slave Device 12: Flow Run Config: Gas Fraction | FP | — | RW |
| 7565 | 1D8D | Slave Device 12: Flow Run Config: Plate Diameter | FP | inch | RW |
| 7567 | 1D8F | Slave Device 12: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 7569 | 1D91 | Slave Device 12: Flow Run Config: Cone Beta | FP | — | RW |
| 7571 | 1D93 | Slave Device 12: Flow Run Config: Nominal Value | FP | — | RW |
| 7573 | 1D95 | Slave Device 12: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 7575 | 1D97 | Slave Device 12: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 13 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------------------|--------|
| 7601 | 1DB1 | Slave Device 13: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 7603 | 1DB3 | Slave Device 13: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 7605 | 1DB5 | Slave Device 13: Flow Run Config: Nitrogen | FP | — | RW |
| 7607 | 1DB7 | Slave Device 13: Flow Run Config: Specific Gravity | FP | — | RW |
| 7609 | 1DB9 | Slave Device 13: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 7611 | 1DBB | Slave Device 13: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 7613 | 1DBD | Slave Device 13: Flow Run Config: Gas Fraction | FP | — | RW |
| 7615 | 1DBF | Slave Device 13: Flow Run Config: Plate Diameter | FP | inch | RW |
| 7617 | 1DC1 | Slave Device 13: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 7619 | 1DC3 | Slave Device 13: Flow Run Config: Cone Beta | FP | — | RW |
| 7621 | 1DC5 | Slave Device 13: Flow Run Config: Nominal Value | FP | — | RW |
| 7623 | 1DC7 | Slave Device 13: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 7625 | 1DC9 | Slave Device 13: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 14 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 7651 | 1DE3 | Slave Device 14: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 7653 | 1DE5 | Slave Device 14: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 7655 | 1DE7 | Slave Device 14: Flow Run Config: Nitrogen | FP | — | RW |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------------------|--------|
| 7657 | 1DE9 | Slave Device 14: Flow Run Config: Specific Gravity | FP | — | RW |
| 7659 | 1DEB | Slave Device 14: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 7661 | 1DED | Slave Device 14: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 7663 | 1DEF | Slave Device 14: Flow Run Config: Gas Fraction | FP | — | RW |
| 7665 | 1DF1 | Slave Device 14: Flow Run Config: Plate Diameter | FP | inch | RW |
| 7667 | 1DF3 | Slave Device 14: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 7669 | 1DF5 | Slave Device 14: Flow Run Config: Cone Beta | FP | — | RW |
| 7671 | 1DF7 | Slave Device 14: Flow Run Config: Nominal Value | FP | — | RW |
| 7673 | 1DF9 | Slave Device 14: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 7675 | 1DFB | Slave Device 14: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 15 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------------------|--------|
| 7701 | 1E15 | Slave Device 15: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 7703 | 1E17 | Slave Device 15: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 7705 | 1E19 | Slave Device 15: Flow Run Config: Nitrogen | FP | — | RW |
| 7707 | 1E1B | Slave Device 15: Flow Run Config: Specific Gravity | FP | — | RW |
| 7709 | 1E1D | Slave Device 15: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 7711 | 1E1F | Slave Device 15: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 7713 | 1E21 | Slave Device 15: Flow Run Config: Gas Fraction | FP | — | RW |
| 7715 | 1E23 | Slave Device 15: Flow Run Config: Plate Diameter | FP | inch | RW |
| 7717 | 1E25 | Slave Device 15: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 7719 | 1E27 | Slave Device 15: Flow Run Config: Cone Beta | FP | — | RW |
| 7721 | 1E29 | Slave Device 15: Flow Run Config: Nominal Value | FP | — | RW |
| 7723 | 1E2B | Slave Device 15: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 7725 | 1E2D | Slave Device 15: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 16 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------------------|--------|
| 7751 | 1E47 | Slave Device 16: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 7753 | 1E49 | Slave Device 16: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 7755 | 1E4B | Slave Device 16: Flow Run Config: Nitrogen | FP | — | RW |
| 7757 | 1E4D | Slave Device 16: Flow Run Config: Specific Gravity | FP | — | RW |
| 7759 | 1E4F | Slave Device 16: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 7761 | 1E51 | Slave Device 16: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 7763 | 1E53 | Slave Device 16: Flow Run Config: Gas Fraction | FP | — | RW |
| 7765 | 1E55 | Slave Device 16: Flow Run Config: Plate Diameter | FP | inch | RW |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|------------|--------|
| 7767 | 1E57 | Slave Device 16: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 7769 | 1E59 | Slave Device 16: Flow Run Config: Cone Beta | FP | — | RW |
| 7771 | 1E5B | Slave Device 16: Flow Run Config: Nominal Value | FP | — | RW |
| 7773 | 1E5D | Slave Device 16: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 7775 | 1E5F | Slave Device 16: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 17 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------------------|--------|
| 7801 | 1E79 | Slave Device 17: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 7803 | 1E7B | Slave Device 17: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 7805 | 1E7D | Slave Device 17: Flow Run Config: Nitrogen | FP | — | RW |
| 7807 | 1E7F | Slave Device 17: Flow Run Config: Specific Gravity | FP | — | RW |
| 7809 | 1E81 | Slave Device 17: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 7811 | 1E83 | Slave Device 17: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 7813 | 1E85 | Slave Device 17: Flow Run Config: Gas Fraction | FP | — | RW |
| 7815 | 1E87 | Slave Device 17: Flow Run Config: Plate Diameter | FP | inch | RW |
| 7817 | 1E89 | Slave Device 17: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 7819 | 1E8B | Slave Device 17: Flow Run Config: Cone Beta | FP | — | RW |
| 7821 | 1E8D | Slave Device 17: Flow Run Config: Nominal Value | FP | — | RW |
| 7823 | 1E8F | Slave Device 17: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 7825 | 1E91 | Slave Device 17: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 18 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------------------|--------|
| 7851 | 1EAB | Slave Device 18: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 7853 | 1EAD | Slave Device 18: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 7855 | 1EAF | Slave Device 18: Flow Run Config: Nitrogen | FP | — | RW |
| 7857 | 1EB1 | Slave Device 18: Flow Run Config: Specific Gravity | FP | — | RW |
| 7859 | 1EB3 | Slave Device 18: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 7861 | 1EB5 | Slave Device 18: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 7863 | 1EB7 | Slave Device 18: Flow Run Config: Gas Fraction | FP | — | RW |
| 7865 | 1EB9 | Slave Device 18: Flow Run Config: Plate Diameter | FP | inch | RW |
| 7867 | 1EBB | Slave Device 18: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 7869 | 1EBD | Slave Device 18: Flow Run Config: Cone Beta | FP | — | RW |
| 7871 | 1EBF | Slave Device 18: Flow Run Config: Nominal Value | FP | — | RW |
| 7873 | 1EC1 | Slave Device 18: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 7875 | 1EC3 | Slave Device 18: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 19 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------------------|--------|
| 7901 | 1EDD | Slave Device 19: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 7903 | 1EDF | Slave Device 19: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 7905 | 1EE1 | Slave Device 19: Flow Run Config: Nitrogen | FP | — | RW |
| 7907 | 1EE3 | Slave Device 19: Flow Run Config: Specific Gravity | FP | — | RW |
| 7909 | 1EE5 | Slave Device 19: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 7911 | 1EE7 | Slave Device 19: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 7913 | 1EE9 | Slave Device 19: Flow Run Config: Gas Fraction | FP | — | RW |
| 7915 | 1EEB | Slave Device 19: Flow Run Config: Plate Diameter | FP | inch | RW |
| 7917 | 1EED | Slave Device 19: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 7919 | 1EEF | Slave Device 19: Flow Run Config: Cone Beta | FP | — | RW |
| 7921 | 1EF1 | Slave Device 19: Flow Run Config: Nominal Value | FP | — | RW |
| 7923 | 1EF3 | Slave Device 19: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 7925 | 1EF5 | Slave Device 19: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 20 Configuration (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------------------|--------|
| 7951 | 1F0F | Slave Device 20: Flow Run Config: Atmospheric Pressure | FP | psia | RW |
| 7953 | 1F11 | Slave Device 20: Flow Run Config: Carbon Dioxide | FP | — | RW |
| 7955 | 1F13 | Slave Device 20: Flow Run Config: Nitrogen | FP | — | RW |
| 7957 | 1F15 | Slave Device 20: Flow Run Config: Specific Gravity | FP | — | RW |
| 7959 | 1F17 | Slave Device 20: Flow Run Config: Heating Value | FP | MMBtu/ft ³ | RW |
| 7961 | 1F19 | Slave Device 20: Flow Run Config: Oil Density | FP | lbm/ft ³ | RW |
| 7963 | 1F1B | Slave Device 20: Flow Run Config: Gas Fraction | FP | — | RW |
| 7965 | 1F1D | Slave Device 20: Flow Run Config: Plate Diameter | FP | inch | RW |
| 7967 | 1F1F | Slave Device 20: Flow Run Config: Pipe Diameter | FP | inch | RW |
| 7969 | 1F21 | Slave Device 20: Flow Run Config: Cone Beta | FP | — | RW |
| 7971 | 1F23 | Slave Device 20: Flow Run Config: Nominal Value | FP | — | RW |
| 7973 | 1F25 | Slave Device 20: TFM Config: T1 Nominal Factor | FP | pulses/gal | RW |
| 7975 | 1F27 | Slave Device 20: TFM Config: T2 Nominal Factor | FP | pulses/gal | RW |

Slave 1 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------------|-----------|-------|--------|
| 8001 | 1F41 | Slave Device 1: Holding: Alarms | INT32 | — | RO |
| 8003 | 1F43 | Slave Device 1: Holding: Input Status | INT32 | — | RO |
| 8005 | 1F45 | Slave Device 1: Holding: Calc Status | INT32 | — | RO |

Slave 2 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------------|-----------|-------|--------|
| 8051 | 1F73 | Slave Device 2: Holding: Alarms | INT32 | — | RO |
| 8053 | 1F75 | Slave Device 2: Holding: Input Status | INT32 | — | RO |
| 8055 | 1F77 | Slave Device 2: Holding: Calc Status | INT32 | — | RO |

Slave 3 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------------|-----------|-------|--------|
| 8101 | 1FA5 | Slave Device 3: Holding: Alarms | INT32 | — | RO |
| 8103 | 1FA7 | Slave Device 3: Holding: Input Status | INT32 | — | RO |
| 8105 | 1FA9 | Slave Device 3: Holding: Calc Status | INT32 | — | RO |

Slave 4 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------------|-----------|-------|--------|
| 8151 | 1FD7 | Slave Device 4: Holding: Alarms | INT32 | — | RO |
| 8153 | 1FD9 | Slave Device 4: Holding: Input Status | INT32 | — | RO |
| 8155 | 1FDB | Slave Device 4: Holding: Calc Status | INT32 | — | RO |

Slave 5 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------------|-----------|-------|--------|
| 8201 | 2009 | Slave Device 5: Holding: Alarms | INT32 | — | RO |
| 8203 | 200B | Slave Device 5: Holding: Input Status | INT32 | — | RO |
| 8205 | 200D | Slave Device 5: Holding: Calc Status | INT32 | — | RO |

Slave 6 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------------|-----------|-------|--------|
| 8251 | 203B | Slave Device 6: Holding: Alarms | INT32 | — | RO |
| 8253 | 203D | Slave Device 6: Holding: Input Status | INT32 | — | RO |
| 8255 | 203F | Slave Device 6: Holding: Calc Status | INT32 | — | RO |

Slave 7 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------------|-----------|-------|--------|
| 8301 | 206D | Slave Device 7: Holding: Alarms | INT32 | — | RO |
| 8303 | 206F | Slave Device 7: Holding: Input Status | INT32 | — | RO |
| 8305 | 2071 | Slave Device 7: Holding: Calc Status | INT32 | — | RO |

Slave 8 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------------|-----------|-------|--------|
| 8351 | 209F | Slave Device 8: Holding: Alarms | INT32 | — | RO |
| 8353 | 20A1 | Slave Device 8: Holding: Input Status | INT32 | — | RO |
| 8355 | 20A3 | Slave Device 8: Holding: Calc Status | INT32 | — | RO |

Slave 9 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---------------------------------------|-----------|-------|--------|
| 8401 | 20D1 | Slave Device 9: Holding: Alarms | INT32 | — | RO |
| 8403 | 20D3 | Slave Device 9: Holding: Input Status | INT32 | — | RO |
| 8405 | 20D5 | Slave Device 9: Holding: Calc Status | INT32 | — | RO |

Slave 10 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 8451 | 2103 | Slave Device 10: Holding: Alarms | INT32 | — | RO |
| 8453 | 2105 | Slave Device 10: Holding: Input Status | INT32 | — | RO |
| 8455 | 2107 | Slave Device 10: Holding: Calc Status | INT32 | — | RO |

Slave 11 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 8501 | 2135 | Slave Device 11: Holding: Alarms | INT32 | — | RO |
| 8503 | 2137 | Slave Device 11: Holding: Input Status | INT32 | — | RO |
| 8505 | 2139 | Slave Device 11: Holding: Calc Status | INT32 | — | RO |

Slave 12 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 8551 | 2167 | Slave Device 12: Holding: Alarms | INT32 | — | RO |
| 8553 | 2169 | Slave Device 12: Holding: Input Status | INT32 | — | RO |
| 8555 | 216B | Slave Device 12: Holding: Calc Status | INT32 | — | RO |

Slave 13 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 8601 | 2199 | Slave Device 13: Holding: Alarms | INT32 | — | RO |
| 8603 | 219B | Slave Device 13: Holding: Input Status | INT32 | — | RO |
| 8605 | 219D | Slave Device 13: Holding: Calc Status | INT32 | — | RO |

Slave 14 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 8651 | 21CB | Slave Device 14: Holding: Alarms | INT32 | — | RO |
| 8653 | 21CD | Slave Device 14: Holding: Input Status | INT32 | — | RO |
| 8655 | 21CF | Slave Device 14: Holding: Calc Status | INT32 | — | RO |

Slave 15 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 8701 | 21FD | Slave Device 15: Holding: Alarms | INT32 | — | RO |
| 8703 | 21FF | Slave Device 15: Holding: Input Status | INT32 | — | RO |
| 8705 | 2201 | Slave Device 15: Holding: Calc Status | INT32 | — | RO |

Slave 16 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 8751 | 222F | Slave Device 16: Holding: Alarms | INT32 | — | RO |
| 8753 | 2231 | Slave Device 16: Holding: Input Status | INT32 | — | RO |
| 8755 | 2233 | Slave Device 16: Holding: Calc Status | INT32 | — | RO |

Slave 17 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 8801 | 2261 | Slave Device 17: Holding: Alarms | INT32 | — | RO |
| 8803 | 2263 | Slave Device 17: Holding: Input Status | INT32 | — | RO |
| 8805 | 2265 | Slave Device 17: Holding: Calc Status | INT32 | — | RO |

Slave 18 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 8851 | 2293 | Slave Device 18: Holding: Alarms | INT32 | — | RO |
| 8853 | 2295 | Slave Device 18: Holding: Input Status | INT32 | — | RO |
| 8855 | 2297 | Slave Device 18: Holding: Calc Status | INT32 | — | RO |

Slave 19 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 8901 | 22C5 | Slave Device 19: Holding: Alarms | INT32 | — | RO |
| 8903 | 22C7 | Slave Device 19: Holding: Input Status | INT32 | — | RO |
| 8905 | 22C9 | Slave Device 19: Holding: Calc Status | INT32 | — | RO |

Slave 20 Holding (Integers)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-------|--------|
| 8951 | 22F7 | Slave Device 20: Holding: Alarms | INT32 | — | RO |
| 8953 | 22F9 | Slave Device 20: Holding: Input Status | INT32 | — | RO |
| 8955 | 22FB | Slave Device 20: Holding: Calc Status | INT32 | — | RO |

Slave Device Status

The slave device status includes alarm status and diagnostic information such as input status and calculation status. The Scanner 2x00 slave devices have 16 user-configurable alarms designated as Flow Run Alarms. Alarms are defined as low alarms or high alarms. To decode alarms, refer to “Flow Run Alarm Status” column of the [Bit Definitions—Alarms and Diagnostics](#) below.

Current status of the alarms can be obtained by reading the Flow Run Alarm (FRA) registers in the device status map. A bit value of 1 indicates an alarm condition. Also contained in the device status map are diagnostic registers. The bits in these registers provide system status for inputs (under range, above range or failed), calculation status (for confirming whether the flow run is working properly), and details regarding the health of the MVT.

Bit Definitions—Alarms and Diagnostics

| Bit | Flow Run Alarm Status | Diagnostic 1 (Bits 16-31) Diagnostic 2 (Bits 0-15) | Diagnostic 3 (Bits 16-31) Diagnostic 4 (Bits 0-15) |
|-----|-----------------------|---|---|
| 31 | FRA16 High | FR1 Fail | — |
| 30 | FRA15 High | T1 Fail | — |
| 29 | FRA14 High | T2 Fail | T2 Calc Warning |
| 28 | FRA13 High | Static Pressure Fail | T1 Calc Warning |
| 27 | FRA12 High | Differential Pressure Fail | — |
| 26 | FRA11 High | PT Fail | — |
| 25 | FRA10 High | Analog Input 1 Fail | — |
| 24 | FRA9 High | Analog Input 2 Fail | FR1 Calc Warning |
| 23 | FRA8 High | FR1 Override | — |
| 22 | FRA7 High | T1 Override | — |
| 21 | FRA6 High | T2 Override | MVT M3 Formula Fail |
| 20 | FRA5 High | Static Pressure Override | MVT M2 Formula Fail |
| 19 | FRA4 High | Differential Pressure Override | MVT M1 Formula Fail |
| 18 | FRA3 High | PT Override | MVT User Parameter CRC fail |
| 17 | FRA2 High | Analog Input 1 Override | MVT Factory Parameter CRC fail |
| 16 | FRA1 High | Analog Input 2 Override | MVT Not Present |
| 15 | FRA16 Low | FR1 High | — |
| 14 | FRA15 Low | T1 High | — |
| 13 | FRA14 Low | T2 High | — |
| 12 | FRA13 Low | Static Pressure High | — |
| 11 | FRA12 Low | Differential Pressure High | — |
| 10 | FRA11 Low | PT High | — |
| 9 | FRA10 Low | Analog Input 1 High | — |
| 8 | FRA9 Low | Analog Input 2 High | — |

| Bit | Flow Run Alarm Status | Diagnostic 1 (Bits 16-31) Diagnostic 2 (Bits 0-15) | Diagnostic 3 (Bits 16-31) Diagnostic 4 (Bits 0-15) |
|-----|-----------------------|---|---|
| 7 | FRA8 Low | FR1 Low | — |
| 6 | FRA7 Low | T1 Low | — |
| 5 | FRA6 Low | Static Pressure Low | — |
| 4 | FRA5 Low | — | Power Mode |
| 3 | FRA4 Low | Differential Pressure Low | — |
| 2 | FRA3 Low | PT Low | — |
| 1 | FRA2 Low | Analog Input 1 Low | Device Seal |
| 0 | FRA1 Low | Analog Input 2 Low | External Switch |

The Scanner 2x00 produces low, high and fail conditions for the inputs (not the flow alarms) in accordance with the following table.

| Status | Range Check |
|-----------|----------------------------------|
| Low | Lower Range Limit - 20% of span |
| Fail Low | Lower Range Limit - 500% of span |
| High | Upper Range Limit + 20% of span |
| Fail High | Upper Range Limit + 500% of span |

Slave 1 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------|--------|
| 9001 | 2329 | SD1: Holding: Update Date | FP | MMDDYY | RO |
| 9003 | 232B | SD1: Holding: Update Time | FP | HHMMSS | RO |
| 9005 | 232D | SD1: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9007 | 232F | SD1: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9009 | 2331 | SD1: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9011 | 2333 | SD1: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9013 | 2335 | SD1: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9015 | 2337 | SD1: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9017 | 2339 | SD1: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9019 | 233B | SD1: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9021 | 233D | SD1: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9023 | 233F | SD1: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9025 | 2341 | SD1: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9027 | 2343 | SD1: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9029 | 2345 | SD1: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9031 | 2347 | SD1: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9033 | 2349 | SD1: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 2 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------|--------|
| 9051 | 235B | SD2: Holding: Update Date | FP | MMDDYY | RO |
| 9053 | 235D | SD2: Holding: Update Time | FP | HHMMSS | RO |
| 9055 | 235F | SD2: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9057 | 2361 | SD2: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9059 | 2363 | SD2: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9061 | 2365 | SD2: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9063 | 2367 | SD2: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9065 | 2369 | SD2: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9067 | 236B | SD2: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9069 | 236D | SD2: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9071 | 236F | SD2: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9073 | 2371 | SD2: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9075 | 2373 | SD2: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9077 | 2375 | SD2: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9079 | 2377 | SD2: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9081 | 2379 | SD2: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9083 | 237B | SD2: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 3 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|---------|--------|
| 9101 | 238D | SD3: Holding: Update Date | FP | MMDDYY | RO |
| 9103 | 238F | SD3: Holding: Update Time | FP | HHMMSS | RO |
| 9105 | 2391 | SD3: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9107 | 2393 | SD3: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9109 | 2395 | SD3: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9111 | 2397 | SD3: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9113 | 2399 | SD3: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9115 | 239B | SD3: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9117 | 239D | SD3: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9119 | 239F | SD3: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9121 | 23A1 | SD3: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9123 | 23A3 | SD3: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9125 | 23A5 | SD3: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------|--------|
| 9127 | 23A7 | SD3: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9129 | 23A9 | SD3: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9131 | 23AB | SD3: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9133 | 23AD | SD3: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 4 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------|--------|
| 9151 | 23BF | SD4: Holding: Update Date | FP | MMDDYY | RO |
| 9153 | 23C1 | SD4: Holding: Update Time | FP | HHMMSS | RO |
| 9155 | 23C3 | SD4: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9157 | 23C5 | SD4: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9159 | 23C7 | SD4: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9161 | 23C9 | SD4: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9163 | 23CB | SD4: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9165 | 23CD | SD4: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9167 | 23CF | SD4: Holding: T1 Volume Daily Total | FP | bbbl | RO |
| 9169 | 23D1 | SD4: Holding: T1 Volume Flow Rate | FP | bbbl/day | RO |
| 9171 | 23D3 | SD4: Holding: T2 Volume Daily Total | FP | bbbl | RO |
| 9173 | 23D5 | SD4: Holding: T2 Volume Flow Rate | FP | bbbl/day | RO |
| 9175 | 23D7 | SD4: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9177 | 23D9 | SD4: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9179 | 23DB | SD4: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9181 | 23DD | SD4: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9183 | 23DF | SD4: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 5 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|---------|--------|
| 9201 | 23F1 | SD5: Holding: Update Date | FP | MMDDYY | RO |
| 9203 | 23F3 | SD5: Holding: Update Time | FP | HHMMSS | RO |
| 9205 | 23F5 | SD5: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9207 | 23F7 | SD5: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9209 | 23F9 | SD5: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9211 | 23FB | SD5: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------|--------|
| 9213 | 23FD | SD5: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9215 | 23FF | SD5: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9217 | 2401 | SD5: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9219 | 2403 | SD5: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9221 | 2405 | SD5: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9223 | 2407 | SD5: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9225 | 2409 | SD5: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9227 | 240B | SD5: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9229 | 240D | SD5: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9231 | 240F | SD5: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9233 | 2411 | SD5: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 6 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------|--------|
| 9251 | 2423 | SD6: Holding: Update Date | FP | MMDDYY | RO |
| 9253 | 2425 | SD6: Holding: Update Time | FP | HHMMSS | RO |
| 9255 | 2427 | SD6: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9257 | 2429 | SD6: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9259 | 242B | SD6: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9261 | 242D | SD6: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9263 | 242F | SD6: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9265 | 2431 | SD6: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9267 | 2433 | SD6: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9269 | 2435 | SD6: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9271 | 2437 | SD6: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9273 | 2439 | SD6: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9275 | 243B | SD6: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9277 | 243D | SD6: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9279 | 243F | SD6: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9281 | 2441 | SD6: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9283 | 2443 | SD6: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 7 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------|--------|
| 9301 | 2455 | SD7: Holding: Update Date | FP | MMDDYY | RO |
| 9303 | 2457 | SD7: Holding: Update Time | FP | HHMMSS | RO |
| 9305 | 2459 | SD7: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9307 | 245B | SD7: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9309 | 245D | SD7: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9311 | 245F | SD7: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9313 | 2461 | SD7: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9315 | 2463 | SD7: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9317 | 2465 | SD7: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9319 | 2467 | SD7: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9321 | 2469 | SD7: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9323 | 246B | SD7: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9325 | 246D | SD7: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9327 | 246F | SD7: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9329 | 2471 | SD7: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9331 | 2473 | SD7: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9333 | 2475 | SD7: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 8 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|---------|--------|
| 9351 | 2487 | SD8: Holding: Update Date | FP | MMDDYY | RO |
| 9353 | 2489 | SD8: Holding: Update Time | FP | HHMMSS | RO |
| 9355 | 248B | SD8: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9357 | 248D | SD8: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9359 | 248F | SD8: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9361 | 2491 | SD8: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9363 | 2493 | SD8: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9365 | 2495 | SD8: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9367 | 2497 | SD8: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9369 | 2499 | SD8: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9371 | 249B | SD8: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9373 | 249D | SD8: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9375 | 249F | SD8: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------|--------|
| 9377 | 24A1 | SD8: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9379 | 24A3 | SD8: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9381 | 24A5 | SD8: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9383 | 24A7 | SD8: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 9 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|---|-----------|-----------|--------|
| 9401 | 24B9 | SD9: Holding: Update Date | FP | MMDDYY | RO |
| 9403 | 24BB | SD9: Holding: Update Time | FP | HHMMSS | RO |
| 9405 | 24BD | SD9: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9407 | 24BF | SD9: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9409 | 24C1 | SD9: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9411 | 24C3 | SD9: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9413 | 24C5 | SD9: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9415 | 24C7 | SD9: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9417 | 24C9 | SD9: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9419 | 24CB | SD9: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9421 | 24CD | SD9: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9423 | 24CF | SD9: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9425 | 24D1 | SD9: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9427 | 24D3 | SD9: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9429 | 24D5 | SD9: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9431 | 24D7 | SD9: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9433 | 24D9 | SD9: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 10 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|---------|--------|
| 9451 | 24EB | SD10: Holding: Update Date | FP | MMDDYY | RO |
| 9453 | 24ED | SD10: Holding: Update Time | FP | HHMMSS | RO |
| 9455 | 24EF | SD10: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9457 | 24F1 | SD10: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9459 | 24F3 | SD10: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9461 | 24F5 | SD10: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------|--------|
| 9463 | 24F7 | SD10: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9465 | 24F9 | SD10: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9467 | 24FB | SD10: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9469 | 24FD | SD10: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9471 | 24FF | SD10: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9473 | 2501 | SD10: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9475 | 2503 | SD10: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9477 | 2505 | SD10: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9479 | 2507 | SD10: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9481 | 2509 | SD10: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9483 | 250B | SD10: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 11 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------|--------|
| 9501 | 251D | SD11: Holding: Update Date | FP | MMDDYY | RO |
| 9503 | 251F | SD11: Holding: Update Time | FP | HHMMSS | RO |
| 9505 | 2521 | SD11: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9507 | 2523 | SD11: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9509 | 2525 | SD11: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9511 | 2527 | SD11: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9513 | 2529 | SD11: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9515 | 252B | SD11: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9517 | 252D | SD11: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9519 | 252F | SD11: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9521 | 2531 | SD11: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9523 | 2533 | SD11: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9525 | 2535 | SD11: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9527 | 2537 | SD11: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9529 | 2539 | SD11: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9531 | 253B | SD11: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9533 | 253D | SD11: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 12 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------|--------|
| 9551 | 254F | SD12: Holding: Update Date | FP | MMDDYY | RO |
| 9553 | 2551 | SD12: Holding: Update Time | FP | HHMMSS | RO |
| 9555 | 2553 | SD12: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9557 | 2555 | SD12: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9559 | 2557 | SD12: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9561 | 2559 | SD12: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9563 | 255B | SD12: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9565 | 255D | SD12: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9567 | 255F | SD12: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9569 | 2561 | SD12: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9571 | 2563 | SD12: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9573 | 2565 | SD12: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9575 | 2567 | SD12: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9577 | 2569 | SD12: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9579 | 256B | SD12: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9581 | 256D | SD12: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9583 | 256F | SD12: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 13 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|---------|--------|
| 9601 | 2581 | SD13: Holding: Update Date | FP | MMDDYY | RO |
| 9603 | 2583 | SD13: Holding: Update Time | FP | HHMMSS | RO |
| 9605 | 2585 | SD13: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9607 | 2587 | SD13: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9609 | 2589 | SD13: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9611 | 258B | SD13: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9613 | 258D | SD13: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9615 | 258F | SD13: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9617 | 2591 | SD13: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9619 | 2593 | SD13: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9621 | 2595 | SD13: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9623 | 2597 | SD13: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9625 | 2599 | SD13: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------|--------|
| 9627 | 259B | SD13: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9629 | 259D | SD13: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9631 | 259F | SD13: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9633 | 25A1 | SD13: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 14 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------|--------|
| 9651 | 25B3 | SD14: Holding: Update Date | FP | MMDDYY | RO |
| 9653 | 25B5 | SD14: Holding: Update Time | FP | HHMMSS | RO |
| 9655 | 25B7 | SD14: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9657 | 25B9 | SD14: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9659 | 25BB | SD14: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9661 | 25BD | SD14: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9663 | 25BF | SD14: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9665 | 25C1 | SD14: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9667 | 25C3 | SD14: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9669 | 25C5 | SD14: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9671 | 25C7 | SD14: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9673 | 25C9 | SD14: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9675 | 25CB | SD14: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9677 | 25CD | SD14: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9679 | 25CF | SD14: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9681 | 25D1 | SD14: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9683 | 25D3 | SD14: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 15 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|---------|--------|
| 9701 | 25E5 | SD15: Holding: Update Date | FP | MMDDYY | RO |
| 9703 | 25E7 | SD15: Holding: Update Time | FP | HHMMSS | RO |
| 9705 | 25E9 | SD15: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9707 | 25EB | SD15: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9709 | 25ED | SD15: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9711 | 25EF | SD15: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------|--------|
| 9713 | 25F1 | SD15: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9715 | 25F3 | SD15: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9717 | 25F5 | SD15: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9719 | 25F7 | SD15: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9721 | 25F9 | SD15: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9723 | 25FB | SD15: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9725 | 25FD | SD15: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9727 | 25FF | SD15: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9729 | 2601 | SD15: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9731 | 2603 | SD15: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9733 | 2605 | SD15: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 16 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------|--------|
| 9751 | 2617 | SD16: Holding: Update Date | FP | MMDDYY | RO |
| 9753 | 2619 | SD16: Holding: Update Time | FP | HHMMSS | RO |
| 9755 | 261B | SD16: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9757 | 261D | SD16: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9759 | 261F | SD16: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9761 | 2621 | SD16: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9763 | 2623 | SD16: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9765 | 2625 | SD16: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9767 | 2627 | SD16: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9769 | 2629 | SD16: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9771 | 262B | SD16: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9773 | 262D | SD16: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9775 | 262F | SD16: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9777 | 2631 | SD16: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9779 | 2633 | SD16: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9781 | 2635 | SD16: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9783 | 2637 | SD16: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 17 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------|--------|
| 9801 | 2649 | SD17: Holding: Update Date | FP | MMDDYY | RO |
| 9803 | 264B | SD17: Holding: Update Time | FP | HHMMSS | RO |
| 9805 | 264D | SD17: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9807 | 264F | SD17: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9809 | 2651 | SD17: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9811 | 2653 | SD17: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9813 | 2655 | SD17: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9815 | 2657 | SD17: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9817 | 2659 | SD17: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9819 | 265B | SD17: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9821 | 265D | SD17: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9823 | 265F | SD17: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9825 | 2661 | SD17: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9827 | 2663 | SD17: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9829 | 2665 | SD17: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9831 | 2667 | SD17: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9833 | 2669 | SD17: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 18 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|---------|--------|
| 9851 | 267B | SD18: Holding: Update Date | FP | MMDDYY | RO |
| 9853 | 267D | SD18: Holding: Update Time | FP | HHMMSS | RO |
| 9855 | 267F | SD18: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9857 | 2681 | SD18: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9859 | 2683 | SD18: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9861 | 2685 | SD18: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9863 | 2687 | SD18: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9865 | 2689 | SD18: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9867 | 268B | SD18: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9869 | 268D | SD18: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9871 | 268F | SD18: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9873 | 2691 | SD18: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9875 | 2693 | SD18: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------|--------|
| 9877 | 2695 | SD18: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9879 | 2697 | SD18: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9881 | 2699 | SD18: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9883 | 269B | SD18: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 19 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------|--------|
| 9901 | 26AD | SD19: Holding: Update Date | FP | MMDDYY | RO |
| 9903 | 26AF | SD19: Holding: Update Time | FP | HHMMSS | RO |
| 9905 | 26B1 | SD19: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9907 | 26B3 | SD19: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9909 | 26B5 | SD19: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9911 | 26B7 | SD19: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |
| 9913 | 26B9 | SD19: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9915 | 26BB | SD19: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9917 | 26BD | SD19: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9919 | 26BF | SD19: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9921 | 26C1 | SD19: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9923 | 26C3 | SD19: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9925 | 26C5 | SD19: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9927 | 26C7 | SD19: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9929 | 26C9 | SD19: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9931 | 26CB | SD19: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9933 | 26CD | SD19: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Slave 20 Holding (Floating Points)

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|---------|--------|
| 9951 | 26DF | SD20: Holding: Update Date | FP | MMDDYY | RO |
| 9953 | 26E1 | SD20: Holding: Update Time | FP | HHMMSS | RO |
| 9955 | 26E3 | SD20: Holding: Flow Run Volume Daily Total | FP | MCF | RO |
| 9957 | 26E5 | SD20: Holding: Flow Run Volume Flow Rate | FP | MCF/day | RO |
| 9959 | 26E7 | SD20: Holding: Flow Run Mass Daily Total | FP | lbm | RO |
| 9961 | 26E9 | SD20: Holding: Flow Run Mass Flow Rate | FP | lbm/day | RO |

| Register (Decimal) | Register (Hex) | Description | Data Type | Units | Access |
|--------------------|----------------|--|-----------|-----------|--------|
| 9963 | 26EB | SD20: Holding: Flow Run Energy Daily Total | FP | Btu | RO |
| 9965 | 26ED | SD20: Holding: Flow Run Energy Flow Rate | FP | Btu/day | RO |
| 9967 | 26EF | SD20: Holding: T1 Volume Daily Total | FP | bbl | RO |
| 9969 | 26F1 | SD20: Holding: T1 Volume Flow Rate | FP | bbl/day | RO |
| 9971 | 26F3 | SD20: Holding: T2 Volume Daily Total | FP | bbl | RO |
| 9973 | 26F5 | SD20: Holding: T2 Volume Flow Rate | FP | bbl/day | RO |
| 9975 | 26F7 | SD20: Holding: Static Pressure Instantaneous Reading | FP | psig | RO |
| 9977 | 26F9 | SD20: Holding: Differential Pressure Instantaneous Reading | FP | "H2O@68°F | RO |
| 9979 | 26FB | SD20: Holding: RTD Instantaneous Reading | FP | °F | RO |
| 9981 | 26FD | SD20: Holding: Analog Input 1 Instantaneous Reading | FP | V | RO |
| 9983 | 26FF | SD20: Holding: Analog Input 2 Instantaneous Reading | FP | V | RO |

Triggered Registers

The QRATE Scanner 3X00 triggered registers store volumes, averaged values, and flow times since the last triggered archive was captured. The QRATE Scanner 3X00 can be configured via the web interface to automatically create triggered archives based on a variety of modes (log on real time period, periodically, on device alarm, or on digital output) or to support PID tuning when an analog output is configured as a PID controller. Via Modbus, a user can also manually publish a triggered archive by writing a value of 500050 to the command register. See [Command Registers, page 139](#) for details and additional triggered archive commands.

Interval/Daily/Event Pointer Registers

These registers provide an index of the last record that was stored in the log data. These values start at 1 and increment with each newly created log. When the maximum number of records is reached, the pointer resets to 1 and starts incrementing again.

Device Status

The QRATE Scanner 3X00 provides 32 user-configurable alarms that can be assigned to a wide variety of system, device, and flow parameters. These selections includes alarm status and diagnostic information such as input status and calculation status. Alarms can be defined as low alarms, high alarms, or configured with both low and high setpoints.

A bit value of 1 indicates an alarm condition.

For details on configuring an alarm, see the QRATE Scanner 3X00 Web Interface User Manual.

Units

QRATE Scanner 3X00 holding registers allow users to read data in terms of measurement units specified by the installed Modbus map. These units are different from QRATE Scanner 3X00 base units. See [Appendix A—Unit Conversion Table, page A-1](#), for a list of common base units and the scale factors for converting them to other user-specified units.

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Appendix A—Unit Conversion Table

| Name | Unit | Scale Factor | Offset |
|--|-----------------------|----------------------|--------------|
| Gas & Liquid Volume (Corrected & Uncorrected) | m ³ (Base) | 1 | — |
| | E3m ³ | 0.001000 | — |
| | E6m ³ | 0.00001000 | — |
| | MCF | 0.0353146667214887 | — |
| | MMCF | 0.0000353146667215 | — |
| | ft ³ | 35.3146667214886000 | — |
| | l | 1000.000 | — |
| | igal | 219.9692482990880000 | — |
| | gal | 264.1720523581480000 | — |
| | bbl | 6.2898107704321000 | — |
| | SCF | 35.3146667214886000 | — |
| | cm ³ | 1000000.000 | — |
| | 10m ³ | 0.1000 | — |
| | 100m ³ | 0.01000 | — |
| Pressure (Differential & Static) | Pa (Base) | 1 | — |
| | kPa | 0.001000 | — |
| | MPa | 0.00001000 | — |
| | psi | 0.0001450377377302 | — |
| | "Hg | 0.0002961338811115 | — |
| | "H2O@68F | 0.0040218626654587 | — |
| | ftH2O@68F | 0.0003348833301503 | — |
| | mmH2O@68F | 0.1021553117026510 | — |
| | atm | 0.0000098692326672 | — |
| | bar | 0.00001000 | — |
| | mbar | 0.01000 | — |
| | "H2O@60F | 0.0040185999618031 | — |
| | "H2O@39.167F | 0.0040147368291026 | — |
| | mmH2O@60F | 0.0075006168270400 | — |
| | mmHg | 0.0075006168270400 | — |
| | kg/cm ² | 0.0000101971621298 | — |
| Temperature | K (Base) | 1 | — |
| | °C | 1 | -273.15 |
| | °F | 1.8 | -255.3722222 |
| | °R | 1.8 | — |
| Mass | kg (Base) | 1 | — |
| | lbm | 2.2046226218487800 | — |
| | g | 1000.000 | — |

| Name | Unit | Scale Factor | Offset |
|------------|-------------------|---------------------|--------|
| Energy | J (Base) | 1 | — |
| | kJ | 0.001000 | — |
| | MJ | 0.000001000 | — |
| | GJ | 0.000000001000 | — |
| | Btu | 0.0009478171203133 | — |
| | MBtu | 0.0000009478171203 | — |
| | MMBtu | 0.0000000009478171 | — |
| | kWh | 0.0000002777777778 | — |
| | kcal | 0.0002388458966275 | — |
| | 10MJ | 0.0000001000 | — |
| | 100MJ | 0.00000001000 | — |
| | BtuC | 0.0009482133290348 | — |
| Length | M (Base) | 1 | — |
| | cm | 100.000 | — |
| | mm | 1000.000 | — |
| | km | 0.001000 | — |
| | inch | 39.3700787401575000 | — |
| | ft | 3.2808398950131200 | — |
| | yard | 1.0936132983377100 | — |
| | mile | 0.0006213711922373 | — |
| Frequency | Hz (Base) | 1 | — |
| | kHz | 0.001000 | — |
| | MHz | 0.000001000 | — |
| Resistance | Ohm (Base) | 1 | — |
| | kOhm | 0.001000 | — |
| | MOhm | 0.000001000 | — |
| Current | A (Base) | 1 | — |
| | mA | 1000.000 | — |
| Voltage | V (Base) | 1 | — |
| | mV | 1000.000 | — |
| Fraction | (no units) (Base) | 1 | — |
| | % | 100.000 | — |
| Time | s (Base) | 1 | — |
| | ms | 1000.000 | — |
| | mins | 0.0166666666666667 | — |
| | hours | 0.0002777777777778 | — |
| | days | 0.0000115740740741 | — |
| | weeks | 0.0000016534391534 | — |
| | months | 0.0000003802651757 | — |
| | years | 0.0000000316887646 | — |

| Name | Unit | Scale Factor | Offset |
|--|-----------------|--------------------|--------|
| System Ticks | ticks (Base) | 1 | — |
| | µs | 10000.000 | — |
| | ms | 10.000 | — |
| | s | 0.01000 | — |
| Viscosity | Kg/m•sec (Base) | 1 | — |
| | P | 10.000 | — |
| | cP | 1000.000 | — |
| | lbm/ft•s | 0.6719689751395100 | — |
| Percent | % (Base) | 1 | — |
| | (No units) | 0.01000 | — |
| Power | W (Base) | 1 | — |
| | mW | 1000.000 | — |
| | kW | 0.001000 | — |
| Charge | Ah (Base) | 1 | — |
| | mAh | 1000.000 | — |
| | C | 3600.000 | — |
| Mole Mass | kg·mol | 1 | — |
| | lb·mol | 2.2046226218487800 | — |
| | g·mol | 1000.000 | — |
| Relative Density (Specific Gravity) | ADen (Base) | 1 | — |
| | RDL | 0.00100098497 | — |
| | RDG | 0.81605177231 | — |

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