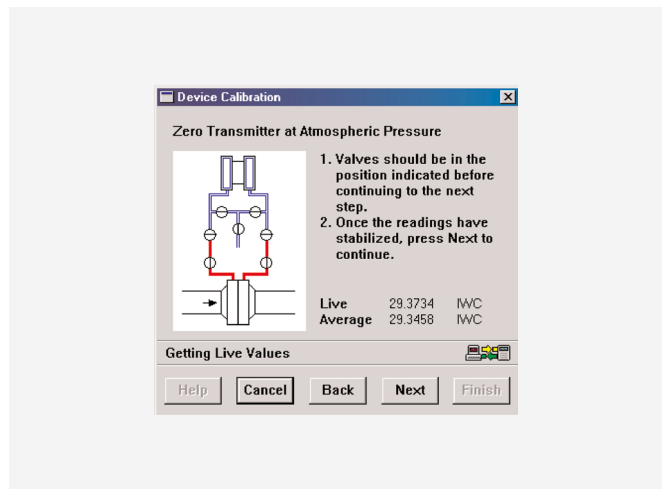
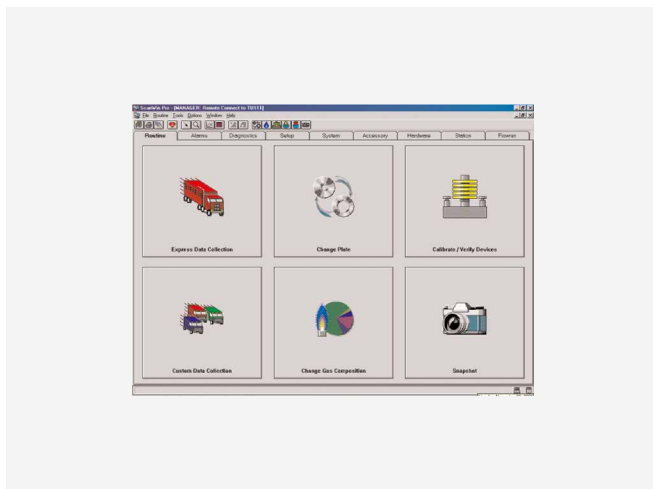
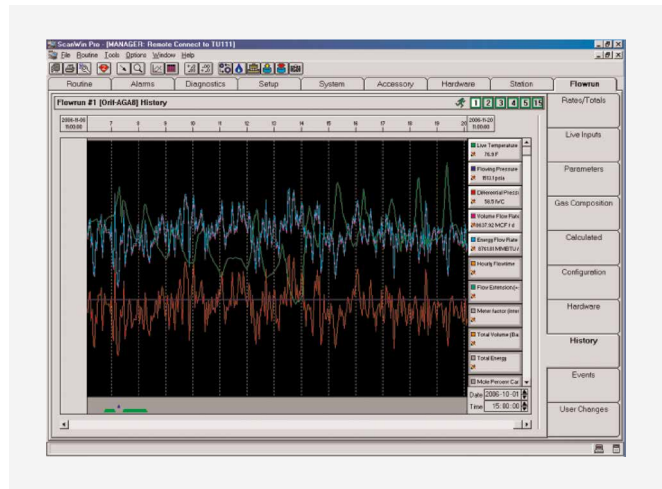
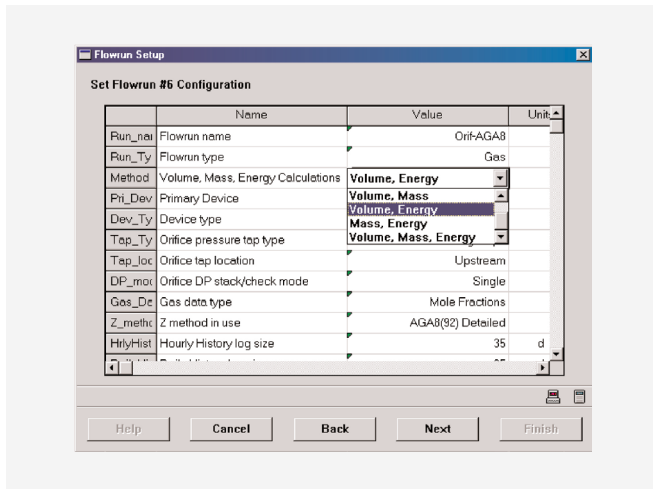


# + NUFLO ScanWin

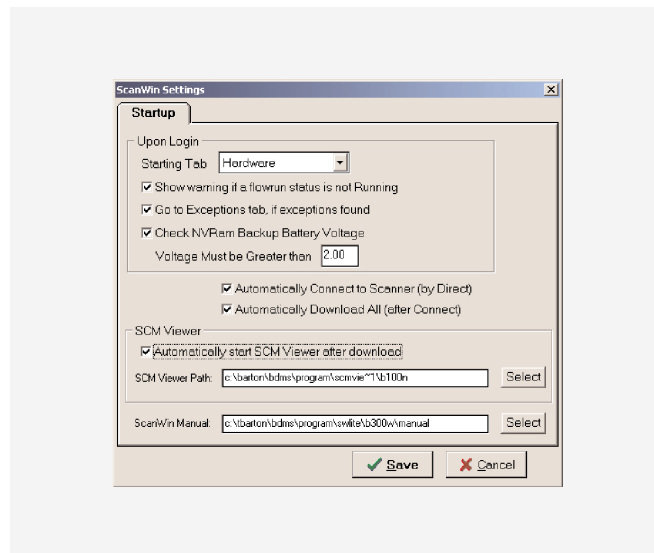
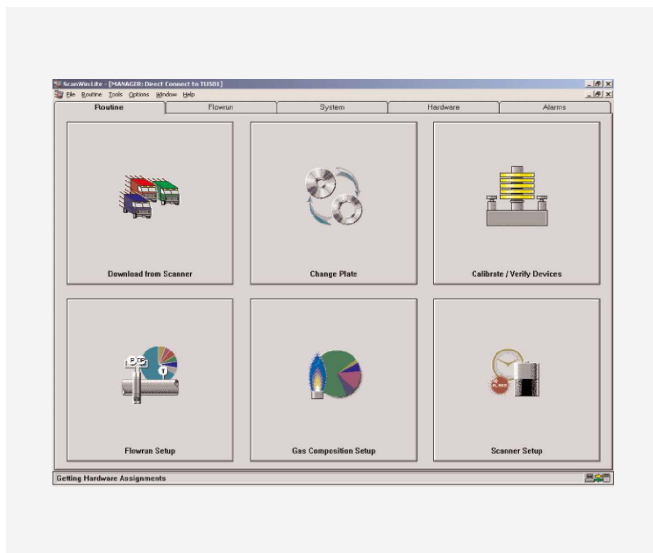
Configuration Software for Scanner® 1130, 1131, 1140 and 1141 EFM / RTUs

By combining the flexibility and power of electronic measurement technology with the ease and familiarity of the basic chart recorder, Sensia has enhanced and simplified the process of configuring, calibrating and monitoring Scanner 1100 Series EFM/RTU's. ScanWin is the software tool that makes this all possible.

From the beginning ScanWin was designed with large buttons and tabs to facilitate simple and quick navigation in the field on a laptop with no mouse. Wizards have been created for standard operational procedures to reduce the time required for routine operations. And best of all ScanWin works with all Scanner 1130, 1131 1140 and 1141 EFM/RTU's and all firmware versions compatible with these products<sup>1</sup>



<sup>1</sup> Version 4.x.x firmware required to provide full functionality.



**EDITIONS**

To improve ScanWin even more, it is now available in two editions LITE and PRO.

LITE has been optimized for measurement only applications by simplifying the interface to concentrate on only those duties and tasks that an operator would perform on a day to day basis with a Scanner performing a measurement only application.

By allowing automatic connection and downloading of historical data when ScanWin is launched, ScanWin LITE can reduce the time and complexity to perform regular operational tasks.

The unnecessary long term storage of data has been removed from the field operators PC and ScanWin LITE. This change has simplified the ScanWin interface and eliminated the complexity and maintenance associated with managing large amounts of data. Now, when ScanWin LITE completes a download it will automatically start the SCM Viewer and open the download file just created. The user then reviews the data to ensure it is complete and that the site is operating correctly. They can print or export the data immediately or at a later time, and if they have e-mail access they can e-mail the downloaded file to the people that need the data as soon as possible.

PRO edition has everything ScanWin has always had and adds even more functionality. The LITE edition has been tailored specifically for measurement only applications and to allow field operators to complete their work even faster. ScanWin PRO is an advanced tool used to configure and manipulate a Scanner and store the associated measurement data from multiple Scanners.

<b>Standard Features</b>	
Powerful standard features included with both ScanWin	
<b>Automatic Self Discovery</b>	Hook the serial cable to a Scanner, press connect and ScanWin does the rest: figures out the Scanner model number, firmware version, hardware configuration and the presence of expansion boards, meter run configurations and accessory configuration. Then ScanWin groups and displays related data on tabs within the same window. This means there is no guessing as ScanWin only shows what is present in that specific Scanner and configuration. This is vital in a device as flexible and configurable as the Scanner.
<b>System Configuration</b>	Each Scanner comes preconfigured from the factory with a pre-configured operating system and ScanWin allows the user to tailor its setup to their application by modifying items such as adding unique identifiers, enabling power save features, and defining alarm configuration
<b>Meter Run Creation and Configuration</b>	As these Scanners are fully configurable with different number and configuration of meter or flow runs. ScanWin provides a wizard to walk the user through creating and enabling flow runs. ScanWin comes with preset standard Flowrun templates for the more common measurement applications and allows the user to modify and save these configurations specific to how the customer wants to use them. This allows one or more "standard or base flow runs" to be created and replicated in all Scanners in a field with a few short steps. These Flowrun configurations can also be shared among all ScanWin users simply by copying the files created.
<b>Scanner Configuration</b>	Once a Scanner is completely configured including flow runs, modbus maps, and accessories the complete Scanner configuration can be saved for replication in other Scanners or as a backup mechanism.
<b>Hardware Input Calibrations</b>	The ScanWin Calibration wizard supports both single point (offset) and multipoint (3 to 12 points) calibration methods. Up, Down, Up and Down and Random methods are provided as well as averaging of the live value (if wanted) to allow input stabilization during calibration. Additionally all of the Wizards tailor themselves to the input being calibrated to ensure that only related items are accessed and that the values applied are valid.
<b>Live Monitoring</b>	Items within the Scanner which are considered live are continuously updated while being viewed with ScanWin – no need to press a refresh button. Colors are used to indicate state with Red indicating a possible error condition. Live input values for flow runs are also given a separate status to inform the user quickly as to their state (Live, Out of Range, Defaulted etc.)

<b>Flexible Communications</b>	Everything that you can do while connected locally to the Scanner you can do remotely using one of the remote communication methods supported such as wired and wireless modems and all types of radios. ScanWin comes with initial settings for the most common devices but the user may add and customize as many devices as they need to suit their communications infrastructure.
<b>Simple Data Downloading</b>	Multiple download methods are supported including a one button approach. Start ScanWin and it will automatically connect to the Scanner and perform a historical data download and present the data when finished downloading for review – it doesn't get much simpler than that.
<b>Mixed Units</b>	ScanWin supports metric and imperial unit selection or combinations of both for reviewing data. Additionally values may be temporarily changed to a different unit of measurement on-the-go to facilitate simple comparison with external hosts.
<b>Data Security</b>	ScanWin facilitates implementing and maintaining full security in the Scanner to restrict both who can access the Scanner and what they can do once connected. Several levels of security are permitted from Read Only privileges all the way up to full Administrator rights. Additionally the ScanWin native download file (SCM) is binary in nature for secure transfer of your data from site to the measurement host.
<b>Functional Wizards</b>	What used to take operators an hour to complete now takes minutes! ScanWin's functional 'Wizards' simplify everything from routine plate changes, to complex calibration procedures. ScanWin uses these "Wizards" to guide operators through the processes of setting up hardware, flow runs, controllers, and primary devices as well as collecting hardware, system and flow run data. Step by-step screen directions ensure that the appropriate parameters are in place and active.

**Standard Features**

Powerful standard features included with both ScanWin

**Controller Configuration and Operation** ScanWin provides a simple wizard for creating, configuring and calibrating up to 15 different controllers to control your production facility. These controllers are a standard feature of the base firmware for Scanner and ScanWin.

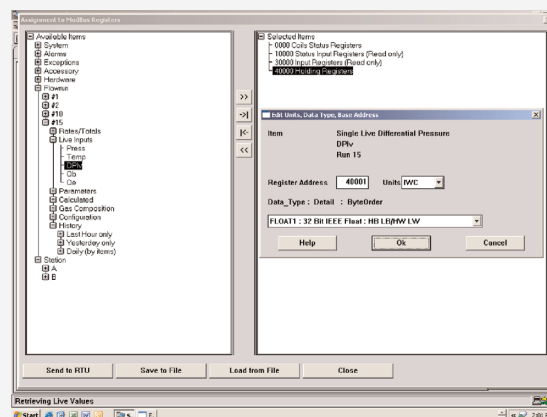
**ScanPLC Monitoring and Operation** If the application requires a custom control, measurement or enhancement the IEC 61131 ScanPLC module provides the solution. In these situations ScanWin will automatically display both ScanPLC parameters and user data in logical groupings. The ScanPLC program developer has control over the access to these data points and can provide the user with over 750 entry points (255 Floats, 255 Integers, and 255 strings).

**Combiners** Combiners are an accessory used to add or subtract like items or values to come to a final result like a location flow total. ScanWin provides a simple interface including data validation to allow the user to create a combiner with a few simple steps.

**Dataloggers** As the Scanner firmware is fully dynamic in memory usage ScanWin and the Scanner allow the user to create up to 15 purpose built data loggers for detailed data gathering and analysis. Through a tree view the user selects which items they want to log, then enter a few parameters such as when to start logging, whether or not to wrap and sample frequency and they are done.

**Stations** If you need to group flow runs or meter runs ScanWin and the Scanner firmware supports the concept of one or two stations which provide totals for all flow runs assigned.

**Network Creation and Configuration** ScanWin facilitates creating and configuring up to 15 different communication networks using one of the three standard supported protocols ScanCom, Modbus and Enron Modbus. Each network can be configured to match the host system polling the Scanner.



**Advanced User Defined Modbus Maps**

To facilitate the wide range of modbus hosts ScanWin provides a simple interface for creating customer defined modbus maps to match their host systems exactly. The mapping interface automatically detects all items available within the Scanner for mapping, displays them in a tree view format for easy access. This allows the customer to select from the tree and add to the map defining where they need the register, the series and the type. To match the host data format exactly, the interface also allows the customer to configure the value at the register using the units of measure, data type, byte and word ordering needed. Both standard and Enron modbus maps are supported and the interface automatically displays the appropriate register sets for the type selected. Additionally the interface will not allow the user to place items in the map where they would be incompatible with the data supported in that register set.

**Custom HMI**

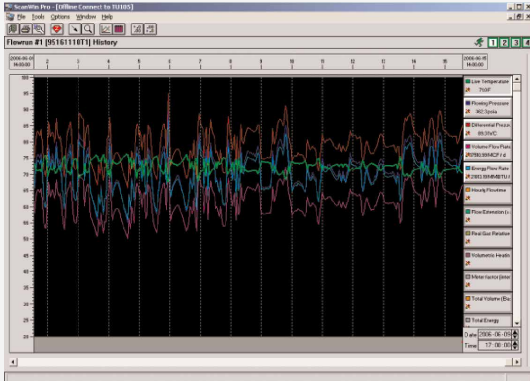
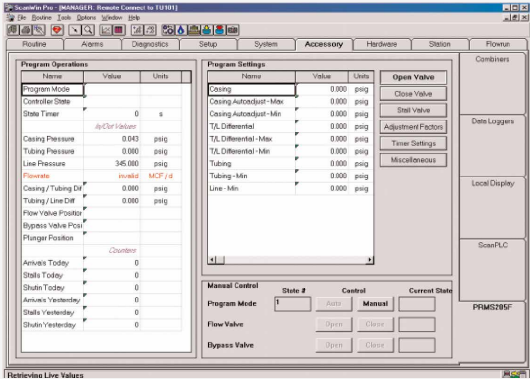
The custom HMI page was added to ScanWin PRO to give the users a page within ScanWin where they can define what items are displayed, assign terms familiar to the user, select the units of measure that the data will be displayed in and finally group and order the way the data is presented. This feature is ideal for providing simple interfaces for ScanPLC programs but functions equally well as a simple summary page for grouping flow run data from multiple flow streams.

**Long Term Data Storage**

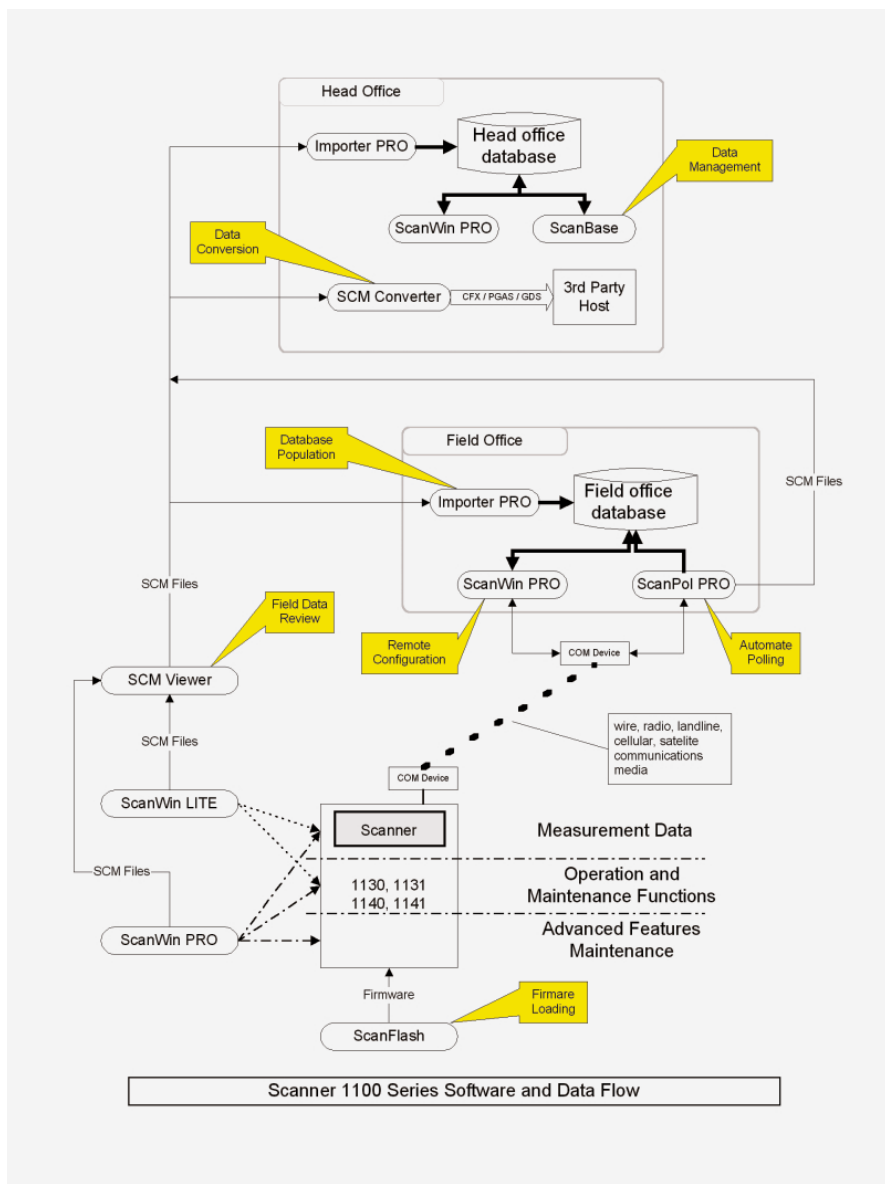
ScanWin was built from the beginning with measurement data processing and ease of use in mind by including a relational database to store both configuration data such as communications settings and years of measurement data for each and every Scanner and Flowrun downloaded. For configuration settings this means once the user has entered the communication parameters once they never have to do it again. ScanWin will apply the settings automatically each time a connection is made. For historical data it means that all data for a given Flowrun or location is immediately available for review and analysis – no searching for files created years ago.

**Historical Data Review**

Interpreting flow data does not have to be complicated. ScanWin incorporates the traditional graphical elements of the chart recorder to provide field operators with the highest levels of confidence when interpreting data. For a more accurate view, operators and analysts can simply toggle to the more detailed spreadsheet format.



The screenshot shows a detailed data spreadsheet titled 'History' for flowrun #1. The spreadsheet has columns for 'Time', 'Status Page', 'Line Temperature', 'Flow Pressure', 'Flow Temperature', 'Flow Rate', 'Flow Density', 'Flow Viscosity', 'Flow Viscosity Index', 'Flow Viscosity Index Index', 'Flow Viscosity Index Index Index', 'Flow Viscosity Index Index Index Index', 'Flow Viscosity Index Index Index Index Index', 'Flow Viscosity Index Index Index Index Index Index', 'Flow Viscosity Index Index Index Index Index Index Index', 'Flow Viscosity Index Index Index Index Index Index Index Index', 'Flow Viscosity Index Index Index Index Index Index Index Index Index', and 'Flow Viscosity Index Index Index Index Index Index Index Index Index Index'. The data is organized in a grid format with rows representing individual data points over time.



Contact your local sales office for a demonstration or more information on how to use this product to automate your Scanner EFM / RTU measurement system.

**Technical Support**

Available to each licensed user is access to the Sensia Scanner Helpdesk. With a single call, users can obtain technical assistance from a trained Scanner support technician.

**Minimum System Requirements**

- + Microsoft Windows 2000
- + 1-GHz or faster Pentium-compatible PC
- + 128 MB of RAM (256 MB recommended)
- + 160 MB hard disk space for installation files plus adequate space for data files
- + CD-ROM for installation
- + 1024 x 768 (XVGA), 16-bit color display
- + Internet Explorer 4 or later

**Companion Products**

The following software products are also available to complete your Scanner EFM/ RTU measurement solution. Consult your nearest sales office or our WEB site for more information.

- + ScanPol®
- + ScanBase®
- + Importer
- + ScanFlash
- + SCM Viewer
- + SCM Converter