

SCB3

Site communication box for use with real-time data transmission

APPLICATIONS

- Real-time data transmission and control from remote wellsites worldwide

BENEFITS

- Saves time and costs with minimal maintenance requirements and small footprint
- Reduces operating costs with remote monitoring, equipment protection, and onsite automation

FEATURES

- Embedded automation and production optimization workflows due to larger storage capacity and faster processors
- Clearly labeled field connectors and preconfigured hardware for easy installation
- High-frequency (sub-minute) remote data acquisition
- One interface for multiple remote terminal units (RTUs)
- 24/7 support and power failure notification system
- Data transmission via high-speed satellite network
- Wide operating temperature range
- Menu-based interface for easy commissioning and troubleshooting

The SCB3 site communication box provides simple, flexible, and secure access to real-time data from remote wellsites located almost anywhere in the world while enabling automation and data buffering to overcome most communication outages without data loss. The SCB3 uses the high-speed BGAN satellite network to enable remote data communication throughout most of the world.

Global communication, 24/7

The network transmits data to Schlumberger servers, allowing web-based viewing or data extraction as required. Around-the-clock support, integrated with other Schlumberger network activities, is also available.

Fully assembled, standardized equipment

The SCB3 is installed and commissioned in just hours by regular field crew and interfaces with standard Schlumberger wellsite acquisition and control systems. Design and equipment standardization means simplicity, reduced risk, ease of maintenance, and cost efficiency at the wellsite and the location where the data is received. The system is delivered fully assembled with a satellite modem, a powerful CPU control board, a power supply with backup power for remote alerts, and field interface connectors inside a small-footprint, corrosion-resistant, weatherproof enclosure.

Streamlined installation, customizable design

Clearly labeled field connectors simplify installation and wiring. The hardware is preconfigured for standard Schlumberger acquisition and control systems. Schlumberger wellsite systems can also be customized to integrate additional third-party equipment and sensors that can be critical for complete system monitoring and analysis.

The common Modbus[®] RTU protocol for data acquisition fully supports RS-232 and RS-485 (2-wire and 4-wire) interfaces for device connection. Removable connector plugs speed installation and wiring.



The SCB3 site communication box is assembled with a satellite modem, a CPU control board with memory buffer, a power supply with backup, and field interface connectors inside a small-footprint weatherproof enclosure.

SCB3 Site Communication Box Specifications

Wall Mount Enclosure

Height, in [cm]	15.75 [40]
Width, in [cm]	11.8 [30]
Depth, in [cm]	6.3 [16]

Satellite Antenna

Height, in [cm]	14.9 [38]
Width, in [cm]	14.9 [38]
Depth, in [cm]	1.1 [2.79]

Enclosure Construction

Material	Blend of polybutylene terephthalate (PBT) and polycarbonate (PC)
Finish	Natural (off-white)
Ingress protection	NEMA 3R
Maximum altitude	2,000 m above sea level

Temperature

Operating, degF [degC]	-40 to 167 [-40 to 75]
Storage, degF [degC]	-40 to 167 [-40 to 75]

Power

Input	100 to 240 V AC, 50 to 60 Hz
Output	14.7 V DC, 2.6 A

Ultracapacitor

Capacity	58 farad
Voltage	16.2 V, DC
Standards	CSA C/US safety certification, CE compliant, RoHS compliant



The SCB3 transmits real-time data via satellite from remote wellsites located almost anywhere in the world.