Site Communication Box

Schlumberger

Global version (SCB-B)

The Schlumberger site communication box (SCB) can provide simple, cost-effective, low-maintenance access to real-time data from anywhere in the world.

The SCB transmits data to Schlumberger servers, allowing Web-based viewing or data redirection as required. Around the clock support is also available, integral with other Schlumberger network activities.

The SCB includes a power supply, a processor-assisted connector (PAC) to collect/buffer data, and a satellite modem to transmit through wide area wireless service (WAW) via satellite.

The SCB is installed and commissioned in hours by regular field crew, and interfaces to the standard Schlumberger wellsite acquisition and control systems. Design and equipment standardization means simplicity, reduced risk, ease of maintenance, and cost efficiency, both at the wellsite and where the data is received.

Global version

The global version of the SCB can be configured for AC power (SCB-BA) or solar power (SCB-BB).

Schlumberger site communication box.

Applications

- Remote site interface for real-time data transmission

Benefits

- Simple installation and commissioning
- Low maintenance
- Data buffering
- 24/7 support

Features

- Remote polling
- One interface for multiple RTUs
- Battery backup
- Satelite transmission
- AC or solar power

Installation summary

- Mount the SCB.
- Mount andconnect the antenna.
- Connect power to the SCB.
- Wire end devices to the SCB (to PAC via bus).
- Aim the antenna.
- Verify end-to-end communications with 24/7 support group.
- Begin transmission as required.

An SCB-BA is fully assembled with a modem, a wireless matrix PAC, a power supply with battery backup, and wiring inside a protective enclosure. The assembly includes a common ground bus bar for grounding to a single point. All wiring and terminals are labeled and a full set of electrical drawings is included.

Most common input/output (I/O) points are voltage, current, temperature, pressure, flow, and vibration from both surface and downhole sensors. Other I/O types are possible.

The hardware is preconfigured for standard Schlumberger acquisition and control systems. Schlumberger wellsite systems can also be customized to integrate additional third party sensors, which can be critical for complete system monitoring and analysis.

An SCB is available for 115/230 V AC (SCB-BA) or solar power operation (SCB-BB). In the event of a power outage, battery backup will provide power for one day of operation.

The SCB-BA/BB is for use outside of North America.

Please refer to the documentation for information on the North American equivalent (SCB-AA/SCB-AB).

Specifications	
Wall mount enclosure	
Height	24 in.
Width	16 in.
Depth	8 in.
Temperature	-25°C to +50°C
Equipment	Nera MPDS modem
	Wireless matrix PAC
	Power supply
	Fused and plain terminals
	Fuses
Power options	
AC power with battery backup† (SCB-AA)	
Input	90 to 240 V AC, 50/60 Hz
Output	12 V DC 5.0 A output
Battery charger†	12 V
Battery	Sealed, lead-acid, terminal type
Solar Power with backup battery†† (SCB-BB)	
Temperature	-40°C to+50°C
Solar panels	Determined by geographical area and expected load
Battery	Determined by geographical area and expected load
Supported devices§	
Standard	K095, K595, W995, Speedstar 2000 HMI, WB2, All ASUs with modbus interface, Phoenix-ISP /ISU

Note: For data transmission, site interface, and site modem specifications, refer to the appropriate equipment specification sheet.

† The PAC can be configured to report AC power loss or low voltage (battery status).

†† Battery will power the wireless modem and PAC for approximately 1 day, depending on the reporting frequency and site temperature.

‡ FM approved for hazardous locations and stored in a separate cabinet.

§ Please refer to the PAC supported end devices specification for a complete list of I/O points supported for each of these end devices

www.slb.com/oilfield

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