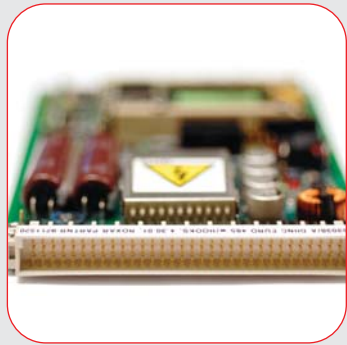
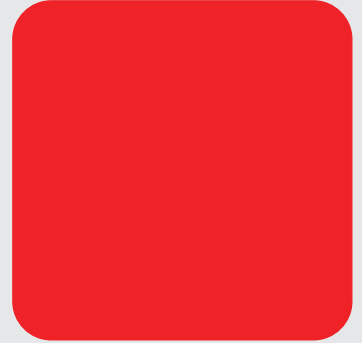
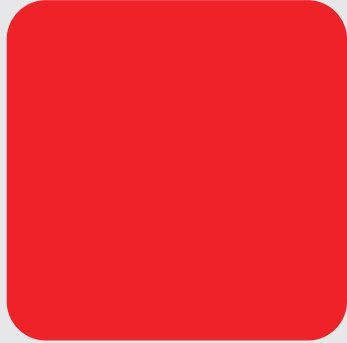


Roxar Surface Acquisition Unit

Zone 1 Single Well SAU

Data Sheet



Roxar Zone 1 Single Well Surface Acquisition Unit

The Roxar Zone 1 Single Well Surface Acquisition Unit (SAU) allows the Roxar Intelligent Downhole Network (IDN) to be deployed in Zone 1 hazardous areas. The SAU uses a Zone 1 certified enclosure to enable installation in some of the world's harshest environments.

Internal to the SAU enclosure lies the Roxar Downhole Network Controller (DHNC) card with additional flash memory. This allows the operation of up to 16 HS or 8 HM gauges. The gauge data can be remotely stored for up to 7 days. The SAU can be powered directly from a 24 VDC supply or there is an optional 100-240 VAC supply version.

The SAU supports 10 Mbit Ethernet and RS485/RS422 communication. A local Ethernet service port allows for easy data retrieval and simplified field maintenance.

An 8-channel 4-20 mA analogue input module provides a simple interface for monitoring third-party instrumentation.

The in-built backlit LCD display and easy-to-use single button control panel allows the gauge data to be monitored in the field without the need of an additional service computer.

Specifications

General Specifications

- Physical Dimensions 750x476x340 mm*
- Enclosure Rating Zone 1

Operating Range

- Temperature 0°C to 60°C / 32°F to 140°F
- Humidity 5% - 95%

Electrical

- Nominal Input Power < 10 W
(4 x HM gauges @ 5 km)
- Max. Start-up Power < 25 W
- Input Supply Voltage 24 VDC

External Interfaces

Downhole Cable:

- Shielded Single Core
- Shielded Dual Core (twisted pair)

Communication:

- RS422
- 10 Mbit Ethernet
- RS485 (optional)

Power supply:

- 24 VDC
- 100-240 VAC

Analogue I/O:

- 8 x Analogue Input

* For indication only - enclosure size can be tailored depending upon configuration.

Communication Protocols

- Modbus TCP
- Modbus RTU
- FTP
- PPP

Downhole Interface

- Supports up to 16 HS gauges
- Supports up to 8 HM gauges

Standards

- Zone 1 certified – Ex II 2 G EEx de IIB T6
- IEC 61000-6-2 certified
- IEC 61000-6-4 certified
- CE marking

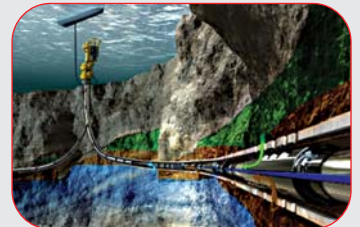
Optional Features

- Backlit LCD screen to display measurement status, time and date information **
- Front panel button to allow simple control of the display and backlight
- Optional 100-240 VAC supply voltage
- Flash Memory for data storage **
- Data storage for up to 6 million data points
- 4-20 mA 8-channel analogue interface ***
- Zone 1 rated Ethernet service port for easy download of data

** Displays data from max. 10 gauges

*** Max 10 downhole gauges when communicating using RS485/422 with analogue interface installed

Roxar Surface Acquisition Unit



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