

# Roxar Surface Acquisition Unit

SAU

Data Sheet



## Roxar Surface Acquisition Unit

Roxar provides a range of Surface Acquisition Units (SAUs) to allow the Roxar Intelligent Downhole Network (IDN) to be deployed in some of the world's harshest environments.

Single or Multi Well solutions along with explosion-proof, weather-proof or safe area enclosures allow for installation in almost any type of environment.

Internal to the SAUs is the Roxar Downhole Network Controller (DHNC) card, which allows the operation of up to 16 HS or 8 HM gauges. The gauge data can be remotely stored for later retrieval or sent directly to the Control System using TCP/IP or RTU interfaces. The SAUs can be powered directly from a 24 VDC supply or optionally from 100-240 VAC supply versions.

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

Optional analogue input/output modules provide a simple interface for monitoring third-party instrumentation or transmitting downhole data to a local monitoring system.

The in-built displays and simple control panel allow the gauge data to be monitored in the field without the need of an additional service computer.



INTERPRETATION



MODELING



SIMULATION



WELL & COMPLETION



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## Specifications

SAU Options	Single Well Zone 1	Single Well IP66	Multi Well Zone 1 System	Multi Well IP66 System	Multi Well Safe Area System
Description	As per datasheet, expandable to 2nd well under certain conditions		Multiwell SAU - PC for remote monitoring and data storage - Number of available wells dependent on total system load and required temperature rating		Cabinet based safe area SAU, Integrated PC for data storage and configuration, Integrated 14 x DHNC card 19" rack
Number of Wells	1				
Maximum Number of Wells	2*		7		14 interface card slots available as standard (expandable upon request)
Power Supply	24 VDC or 110-230 VAC (Optional)				110-230 VAC
Power Consumption	<10 W 4 x HM gauges @ 5 km (exc. space heater)		TBD		
Temp Rating	0°C to 70°C	0°C to 60°C	0°C to 40°C (+55°C available on request)		
Dimensions (mm)	750x476x340	590x350x165	TBD		
Communication Interfaces	Ethernet (TCP/IP) RS485 RS422 RS232 (optional)				
Analogue Output** (Optional)	N/A		4-20 mA 0-5 Volts		
Interface Protocol	Modbus TCP/IP Modbus RTU		Modbus TCP/IP Modbus RTU ODBC (Optional)		
Ingress Protection	IP66				Safe Area
Area Classification	Zone 1	N/A	Zone 1	N/A	Safe Area
PC Platform	N/A		Windows Running Fieldwatch (Optional)		
Analogue Input (Optional)	8 Channels 4-20 mA 0-5 Volts				
Remote data storage	Compact Flash (Optional)		Available on PC		
Extras	Space Heater Desiccant Sunscreen				1U Foldable Screen/Keyboard/Mouse
* Conditions apply					
**Accuracy could be reduced using analogue output					

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[www.roxar.com](http://www.roxar.com)

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