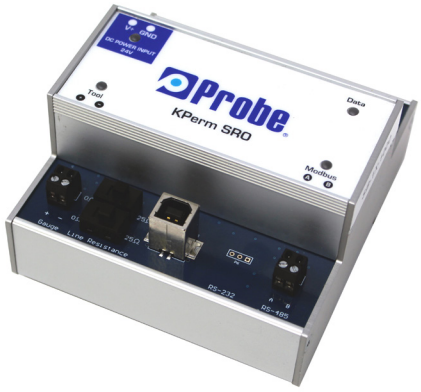
Technical Specification Sheet

Surface Data Acquisition Cards



Surface Data Acquisition Cards are designed to supply power to and communicate with the downhole gauge; a single card can interface with up to 4 permanent downhole gauges. The card converts received raw data signals from the gauge into pressure and temperature values; the data is transmitted via a RS485/232 Modbus RTU protocol to a local data gathering system. The cards are supplied in a single channel or multi-channel (up to 4) configuration.

Ratings & Dimensions

Single Channel Unit	
Max Temperature	-4F(-20C) to 149°F(65°C)
Size	4.125” x 3.75” x 2.125”
Materials	Aluminum – DIN rail mount
Primary Input	Downhole permanent gauge raw data
Primary Output	485 or 232 Modbus RTU
Gauge Types	All Probe permanent gauges

Multi-Channel Unit	
Connected Gauges	4
Max Temperature	149°F (65°C)
Size	6.75” x 4.5” x 1.45”
Materials	HDPE – DIN rail mount
Primary Input	Downhole permanent gauge raw data
Primary Output	485 or 232 Modbus RTU
Gauge types	All Probe permanent gauges

Data Measurements

Sampling Rate	1 sample/sec
Slave Address	1 (can be set up to 251)
Output	Modbus RTU 485 or 232
Baud Rate	9600 –19200
Data Bits	8
Stop Bits	1
Parity	None

Electrical Specification

Single Channel	**Current**	24vDC, 200 mA max
	Voltage	120vAC or 22 – 32vDC
	Power	4.8W
Four Channel	**Current**	24vDC, 450 mA max
	Voltage	120vAC or 22 – 32vDC
	Power	6.8W

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