SmartReader Plus 7

Product Specifications

Type: *Eight-Channel Process Signal*

GENERAL SPECIFICATIONS

Size:	107 mm x 74 mm x 22 mm (4.2" x 2.9" x 0.9")
Weight:	110 grams (3.75 ounces)
Case Material:	Noryl® plastic
Battery:	3.6 volt Lithium
Resolution:	12-bit (1 part in 4096)
Mounting:	Magnetic backing or locking eyelet
Clock Accuracy:	+/- 2 seconds per day
Sampling Methods:	Continuous (First-in, First-out)*, Stop When Full (Fill-then-stop) *Not available with sample rates faster than eight seconds*
Operating Limits:	-40 to 70°C (-40 to 158°F) and 0 to 95% RH (non-condensing)
PC Requirements:	IBM PC or 100% compatible with at least one free serial port, 2 MB of RAM memory, and 2 MB of hard disk space
Software Requirements:	TrendReader® Standard *(compatible with Windows® 3.1, '95, '98, 2000, Me, NT and XP)*

Memory Size:	32KB *(capable of storing up to 21,500 readings)*
	128KB *(capable of storing up to 87,000 readings)*
	1.5MB *(capable of storing up to 1,048,000 readings)*
Sampling Rates:	User selectable rates from 25 per second to once every eight hours *(BP-101 battery pack or PS-201 power supply required for sampling rates faster than eight seconds)*
Number of Channels:	Eight *(one for the internal temperature sensor and seven external channels for analog voltage and current loop signals)*

SENSOR SPECIFICATIONS

Temperature Sensor NTC Thermistor - 10,000 Ohm @ 25°C (77°F)

Range: -40 to 70°C (-40 to 158°F)

Acccuracy: +/- 0.2°C (+/- 0.3°F) over the range 0 to 70ºC (32 to 158ºF)

Resolution: 0.03ºC (0.05ºF) @ 25ºC; better than 0.07ºC (0.12ºF) between -25 and 70°C (-13º and 158ºF); better than 0.13ºC (0.23°F) between -40 and -25°C (-40ºF and -13ºF)

Standard Model* *(SRP-007)*

0 to 2.5 VDC (1 channel)
0 to 5 VDC (2 channels)
0 to 10 VDC (1 channel)
0 to 200 mV DC (1 channel)
0 to 25 mA DC (2 channels)

Other Models*

All external channels: 0 to 2.5 VDC (SRP-007-0-2.5V)
All external channels: 0 to 5 VDC (SRP-007-0-5V)
All external channels: 0 to 10 VDC (SRP-007-0-10V)
All external channels: 0 to 25 mA (SRP-007-25mA)

Maximum Protection

Voltage channels: +/- 40V *(reverse-polarity protected)*
Current channels: +/- 70mA *(reverse-polarity protected)*

Input Impedance

> 1M Ohm (200mV channel)
> 1M Ohm (0 to 2.5V channel)
20K Ohm (0 to 5.0V channel)
40.9K Ohm (0 to 10V channel)
100 Ohm (0 to 25mA channel)

Accuracy

+/- 0.5% of full scale

Transducer restrictions: The use of a single power supply is recommended to avoid ground loops or use loop isolators

The SmartReader Plus 7 is a versatile data logger for easy recording of common process signal variables. With seven input channels, the logger is ideal for monitoring (through commercially available transducers) a wide variety of measurement parameters.

WARRANTY

Internal Battery:	10 Years
Data Logger:	3 Years

APPLICATIONS

Monitoring wind speed, flow, tank level, pressure, current, voltage, power, SCADA troubleshooting, and more.

Model#:	Cat#:
SRP-007	01-0014
SRP-007-128K	01-0123
SRP-007-1.5M	01-0152
SRP-007-0-2.5V	01-0018
SRP-007-0-2.5V-128K	01-0127
SRP-007-0-5V	01-0107
SRP-007-0-5V-128K	01-0124
SRP-007-0-5V-1.5M	01-0154
SRP-007-0-10V	01-0020
SRP-007-0-10V-128K	01-0125
SRP-007-0-10V-1.5M	01-0155
SRP-007-25mA	01-0017
SRP-007-25mA-128K	01-0126
SRP-007-25mA-1.5M	01-0156

ISO9000\SPECIFICATIONS\SRP7.pdf

ACR is an ISO 9001 Registered Company