

SmartReader Plus 7

Product Specifications

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

Battery Life: 10 years with normal use (factory replaceable)

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 2 (compatible with Windows® 2000, 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 curent loop signals)

SENSOR SPECIFICATIONS

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

Range: -40 to 70°C (-40 to 158°F)

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

Resolution: 0.03°C (0.05°F) @ 25°C; better than 0.07°C (0.12°F) between

-25 and 70°C (-13° and 158°F); better than 0.13°C (0.23°F)

between -40 and -25°C (-40°F and -13°F)

Standard Model* (SRP-007) Other Models*

0 to 2.5 VDC (1 channel)
All external channels: 0 to 2.5 VDC (SRP-007-0-2.5V)
All external channels: 0 to 5 VDC (SRP-007-0-5V)
O to 10 VDC (1 channel)
All external channels: 0 to 5 VDC (SRP-007-0-10V)
All external channels: 0 to 10 VDC (SRP-007-0-10V)
All external channels: 0 to 25 mA (SRP-007-25mA)

0 to 25 mA DC (2 channels) Input Impedance

Maximum ProtectionGreater than 1M Ohm (200mV channel)Voltage channels: +/- 40V (reverse-polarity protected)Greater than 1M Ohm (0 to 2.5V channel)Current channels: +/- 70mA (reverse-polarity protected)Greater than 1M Ohm (0 to 5.0V channels)

Accuracy Greater than 1M Ohm (0 to 10V channel)

+/- 0.5% of full scale 20 Ohm (0 to 25mA channels)

*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.



Type: Eight-Channel Process

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

Page 1 of 1 Rev: 7-05/23/06

