

## 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

-40 to 70°C (-40 to 158°F) and 0 to 95% RH (non-condensing) **Operating Limits:** 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)

32KB (capable of storing up to 21,500 readings) **Memory Size:** 

> 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)

Eight (one for the internal temperature sensor and seven external channels **Number of 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)

Other Models\* Standard Model\* (SRP-007)

0 to 2.5 VDC (1 channel) All external channels: 0 to 2.5 VDC (SRP-007-0-2.5V) 0 to 5 VDC (2 channels) All external channels: 0 to 5 VDC (SRP-007-0-5V) 0 to 10 VDC (1 channel) All external channels: 0 to 10 VDC (SRP-007-0-10V) All external channels: 0 to 25 mA (SRP-007-25mA) 0 to 200 mV DC (1 channel)

0 to 25 mA DC (2 channels) Input Impedance

**Maximum Protection** Greater 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

Sianal

**WARRANTY** 

**Internal Battery:** 10 Years 3 Years Data Logger:

## **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

