

## SmartReader Plus 5

## **Product Specifications**

**GENERAL SPECIFICATIONS** 

107 mm x 74 mm x 22 mm (4.2" x 2.9" x 0.9") Size:

Weight: 110 grams (3.75 ounces)

Case Material: Norvi® 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

-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)

Memory Size: 32KB (capable of storing up to 21,500 readings) (2 models available) 128KB (capable of storing up to 87,000 readings)

User selectable rates from 25 per second to once every eight Sampling Rates:

hours (BP-101 battery pack or PS-201 power supply required for sampling

rates faster than eight seconds)

Three (one internal thermistor for cold-junction compensation and two for Number of Channels:

thermocouple inputs)

SENSOR SPECIFICATIONS

Temperature Sensor (internal)

Type: NTC Thermistor - 10,000 Ohm @ 25°C (77°F)

-40 to 70°C (-40 to 158°F) Range:

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

range of 32 to 158°F)

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

-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)

Thermocouple Wire Range Resolution -50 to 600°C (-55 to 1100°F) 0.30°C (0.55°F) J type K type -100 to 1150°C (-145 to 2100°F) 0.50°C (0.90°F) S type 0 to 1450°C (32 to 2642°F) 1.0°C (1.8°F) -200 to 400°C (-325 to 750°F) T type 0.40°C (0.75°F) E type -50 to 680°C (-58 to 1250°F) 0.24°C (0.44°F)

Accuracy

+/- 0.5% of range + resolution

The SmartReader Plus 5 data logger is ideal for those applications that require monitoring extremely high temperatures or monitoring temperature over a wide range. The logger has one internal channel for measuring ambient temperature and two external channels for use with ACR thermocouple wire or any J, K, S, T or E type thermocouple wire.

Type: Three-Channel Temperature Thermocouple



WARRANTY

Internal Battery: 10 Years Data Logger: 3 Years

## APPLICATIONS

Monitoring performance of gas-fired heating equipment, verifying concrete curing temperatures, process verification, etc.

Model#: Cat#:

SRP-005 01-0012 SRP-005-128K 01-0121

Page 1 of 1