SmartReader Plus 10

Product Specifications

Type: *Four-Channel Temperature RTD*

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 2 *(compatible with Windows® 2000, and XP)*

Memory Size:	128KB *(capable of storing up to 87,000 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:	Four *(one internal thermistor channel for ambient temperature and three external channels for use with RTD* temperature probes)* *Any RTD with a Temperature Coefficient of Resistance (TCR) of 0.00385 can be used

SENSOR SPECIFICATIONS

RTD Channels - *The following specifications are for:*

4-Wire Platinum 100 Ohm @ 0˚ C & TCR = 0.00385

4-Wire Platinum 1000 Ohm @ 0˚ C & TCR = 0.00385

Temperature	
Range:	-230 to 300˚C (-382 to 572˚F)
Accuracy:	+/- 0.3˚C (+/- 0.54˚F) + resolution or +/- 0.06% full scale (of logger)
Resolution:	+/- 0.14˚C (+/- 0.25˚F)
Resistance (100 Ohm)	
Range:	5 to 210 Ohm
Accuracy:	+/- 0.13 Ohm, +/- 0.06 % full scale
Resolution:	+/- 0.05 Ohm
Resistance (1000 Ohm)	
Range:	50 to 2100 Ohm
Accuracy:	+/- 1.3 Ohm, +/- 0.06% full scale
Resolution:	+/- 0.5 Ohm

Logger is Temperature compensated by internal temperature sensor for the range of -20 to 80˚C (-4 to 176˚F)

The SmartReader Plus 10 is a powerful and accurate RTD temperature logger designed for easy monitoring and recording of temperature. Any RTD probe or sensor with a TCR of 0.00385 can be used with this logger.



WARRANTY

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

APPLICATIONS

Food process verification, pharmaceutical storage monitoring, transportation of temperature-sensitive goods, etc.

Model#:	**Cat#:**
SRP-010-128K	01-0132