

SmartReader Plus 10

Product Specifications

Type: Four-Channel Temperature
RTD

GENERAL SMARTREADER PLUS 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, guaranteed for ten years
Resolution: 12 bit (1 part in 4096)
Mounting: Magnetic backing or lock 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 - Windows version 3.1, 95, 98, NT, 2000, or XP

Memory Size: 128KB; capable of storing 87,000 12-bit 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 and three external channels designed for use with RTD* [Resistance Temperature Detector] temperature probes
 * Any RTD with a Temperature Coefficient of Resistance (TCR) of 0.00385 can be used with SRP-10

SPECIFICATIONS of 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* (100 & 1000 Ohm probes): -230 to 300°C (-382 to 572°F)

Accuracy (100 & 1000 Ohm): +/- 0.3°C (+/- 0.54°F) ± resolution, +/- 0.06% full scale (of logger)

Resolution:(100 Ohm & 1000 Ohm): +/- 0.14°C (+/- 0.25°F)

Resistance Range (100 Ohm setting): 5 to 210 Ohm

Accuracy: +/- 0.13 Ohm, +/- 0.06 % full scale

Resolution: +/- 0.05 Ohm

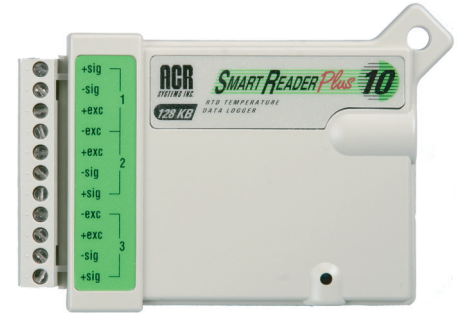
Resistance Range (1000 Ohm setting): 50 to 2100 Ohm

Accuracy: +/- 1.3 Ohm, +/- 0.06% full scale

Resolution: +/- 0.50 Ohm

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

The SmartReader Plus 10 - 128K is a powerful and accurate RTD temperature logger designed for easy monitoring and recording of temperature either locally, or remotely via modem. RTDs with a TCR of 0.00385 can be used with the SRP-10. This data logger can record up to 87,000 12-bit data points. Several SRP-10s can be connected together in a network configuration.



WARRANTY

Internal Battery: 10 Years
Data Logger: 3 Years

APPLICATIONS

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

Model#:

SRP-010-128K

Cat#:

01-0132