

SmartReader Plus 2

Product Specifications

Type: Four-Channel Temperature and Relative Humidity

GENERAL SMARTREADER PLUS 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: Noryl® plastic

3.6 volt Lithium, guaranteed for ten years **Battery:**

Resolution: 12-bit (1 part in 4096)

Magnetic backing or lock eyelet Mounting:

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:** IBM PC or 100% compatible with at least one free serial port, PC Requirements:

2 MB of RAM memory, and 2 MB of hard disk space

TrendReader® Standard - Windows version 3.1, 95, 98, Me. **Software Requirements:**

NT, 2000, or XP

Memory Size: 128KB; capable of storing 87,000 12-bit readings

(Catalog #:01-0113 SRP-002-128K)

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)

Number of Channels: Four (one for the internal temperature sensor and one for the

internal RH sensor and the remaining two channels are reserved

for an optional remote EH-020A probe [temperature and RH

probel)

SENSOR SPECIFICATIONS

Temperature Sensor: -40 to 70°C (-40 to 158°F), NTC Thermistor

 $+/-0.2^{\circ}$ C from 0 to 70°C; $+/-0.5^{\circ}$ C from -40 to 0°C ($+/-0.36^{\circ}$ F Accuracy:

from 32 to 160°F; +/- 0.9°F from -40 to 32°F)

Capacitive thin polymer film **RH Sensor:**

+/- 3% RH from 10 to 90%(-20 to 40°C [-4 to 104°F]); better than Accuracy:

0.04% between 25 and 60% RH at 25°C (77°F)

Changes in relative humidity cause the capacitance of the sensor **Method of Operation:**

> to vary. SRP2 measures this value and converts the readings to a percentage of RH. The RH reading is then temperaturecompensated by a simultaneously-taken temperature reading

from the RH sensor's companion thermistor.

The SmartReader Plus 2 is a self-contained "air-quality" logger that can be used in a wide variety of applications to collect important temperature and relative humidity data. The on-board RH sensor is temperature compensated permitting reliable. worry-free RH readings. For remote sensing, simply attach the optional EH-020A external temperature and RH probe.



WARRANTY

Internal Battery: Data Logger:

10 Years 3 Years

APPLICATIONS

Monitoring the transportation or storage of perishable and pharmaceutical goods, tracking "air quality", HVAC system testing and balancing, etc.

Model#: Cat#:

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