

SmartReader Plus 2

Product Specifications

Type: Four-Channel Temperature and Relative Humidity

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 (compatible with Windows® 3.1, '95, '98, 2000, Me, NT 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 for the internal temperature sensor, one for the internal RH sensor and two for remote measurements of temperature and RH [with ACR's EH-020A probe])

SENSOR SPECIFICATIONS

Temperature Sensor (internal)

Type: NTC Thermistor - 10,000 Ohm @ 25°C (77°F)
Range: -40 to 70°C (-40 to 158°F)
Accuracy: +/- 0.2°C over the range of 0 to 70°C (+/- 0.3°F over the range of 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)

Relative Humidity Sensor (internal)

Type: Capacitive thin polymer film
Range: 0 to 95% RH (non-condensing)
Accuracy: +/- 3% RH from 10 to 90% RH (-20 to 40°C [-4 to 104°F])
Resolution: Better than 0.04% RH between 25 and 60% RH @ 25°C (77°F)

SmartReader Plus 2 is a self-contained data logger that can monitor and record temperature and relative humidity - right out of the box. The on-board RH sensor is temperature compensated, permitting reliable, worry-free RH readings. For remote sensing of temperature and RH, simply attach ACR's temperature/RH probe, or for remote temperature sensing, attach up to two thermistor probes.



WARRANTY

Internal Battery: 10 Years
Data Logger: 3 Years

APPLICATIONS

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

Model#: SRP-002-128K
Cat#: 01-0113