

SmartReader 2

Product Specifications

Type: Four-Channel Temperature & 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, 1 Amp-Hour
Resolution: 8-bit (1 part in 256)
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)
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: 32KB (capable of storing up to 32,767 readings)
Sampling Rates: User selectable rates from 8 seconds to 5 days in 4-second increments
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 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: 0.4°C (0.7°F) @ 25°C; better than 1°C (1.8°F) between -25 and 70°C (-13° and 158°F); better than 2.0°C (3.6°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: +/- 4% RH from 10 to 90% RH (-20 to 40°C [-4 to 104°F])
Resolution: Better than 0.4% RH between 25 and 60% RH @ 25°C (77°F)

The SmartReader 2 data logger has a built-in temperature sensor, a plug-in relative humidity sensor and is equipped with two extra channels to connect either ACR's temperature/RH probe or thermistor probes. The RH plug-in sensor is field replaceable so you can always be assured of continuous recording. The SmartReader 2 is excellent for monitoring "air quality" conditions.



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#: SR-002
Cat#: 01-0025