SmartReader 2
Product Specifications

Type: *Four-Channel Temperature & Relative Humidity*

GENERAL SMARTREADER 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:	8-bit (1 part in 256)
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)
Operating Limits:	-40 to 70˚C (-40 to 158˚F) and 0 to 95% relative humidity (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, Me, NT, 2000, or XP

Memory Size:	32KB; capable of storing 32,768 readings *(Catalog#: 01-0024, SR-001)*
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

Internal Temperature Sensor:	-40 to 70˚C (-40 to 158˚F), NTC Thermistor
Accuracy:	+/- 0.2˚C from 0 to 70˚C; +/- 0.5ºC from -40 to 0ºC
Relative Humidity Sensor:	Capacitive thin polymer film
Accuracy:	+/- 4% RH from 10 to 90% (-20 to 40˚C [-4 to 104˚F])
Resolution:	Better than 0.4% between 25 and 60% RH at 25˚C (77˚F)
Method of Operation:	Changes in relative humidity cause the capacitance of the sensor to vary. The SmartReader 2 measures this value and converts the readings to a percentage of RH. The RH reading is then temperature-compensated by a simultaneously-taken temperature reading from the RH sensor's companion thermistor.

The SmartReader 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:	10 Years
Data Logger:	3 Years

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

Model#:	Cat#:
SR-001	01-0024