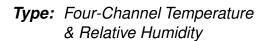


## SmartReader 2

**Product Specifications** 



## **GENERAL SMARTREADER SPECIFICATIONS**

Size: Weight: Case Material: Battery: Resolution: Mounting: Clock Accuracy: Sampling Methods: Operating Limits: PC Requirements: Software Requirements:	<ul> <li>107 mm x 74 mm x 22 mm (4.2" x 2.9" x 0.9")</li> <li>110 grams (3.75 ounces)</li> <li>Noryl® plastic</li> <li>3.6 volt Lithium, guaranteed for ten years</li> <li>8-bit (1 part in 256)</li> <li>Magnetic backing or lock eyelet</li> <li>+/- 2 seconds per day</li> <li>Continuous (First-in, First-out), Stop When Full (Fill-then-stop)</li> <li>-40 to 70°C (-40 to 158°F) and 0 to 95% relative humidity (non-condensing)</li> <li>IBM PC or 100% compatible with at least one free serial port,</li> <li>2 MB of RAM memory, and 2 MB of hard disk space</li> <li>TrendReader® Standard - Windows version 3.1, 95, 98, Me,</li> <li>NT, 2000, or XP</li> </ul>
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: 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:		
Data Logger:		

10 Years 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

Page 1 of 1 Rev: 3-06/06/03

Tel: (516) 624-9362 Toll Free: 1-800-800-0588 Fax: (516) 624-9363



Cascade Group, Inc. greg.basso@verizon.net