



## SmartReader 1

### Two-Channel Temperature Data Logger

The SmartReader 1 is a simple and easy-to-use data logger for monitoring and recording temperature. Quick and easy to set up, it works right out of the box, logging temperature readings from its internal, precision-calibrated temperature sensor. For added versatility, use the extra channel to record temperature (with an ACR thermistor probe), resistance or switch status.

#### APPLICATIONS

Food process verification, pharmaceutical storage, transportation of temperature-sensitive goods, equipment run time, HVAC system testing and balancing, etc.

#### GENERAL SPECIFICATIONS

Size:	107mm x 74mm x 22mm (4.2" x 2.9" x 0.9")
Weight:	110 g (3.75 oz)
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°C to 70°C (-40°F to 158°F) and 0 to 95% RH (non-condensing)
PC Requirements:	Windows PC with at least one free USB or serial port (depending on interface)
Software Requirements:	TrendReader® 2 (Compatible with Windows XP, Vista, Windows 7 and Windows 8 [32 bit & 64 bit])
Memory Size:	32 KB (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:	Two (one for the internal temperature sensor and one for remote sensing of temperature resistance, or switch status)



#### SENSOR SPECIFICATIONS

##### Internal Temperature Sensor

Type:	NTC Thermistor - 10,000 Ohm @ 25°C (77°F)
Range:	-40°C to 70°C (-40°F to 158°F)
Accuracy:	±0.2°C over the range of 0°C to 70°C (± 0.3°F over the range of 32°F to 158°F)
Resolution:	0.4°C (0.7°F) @ 25°C; better than 1°C (1.8°F) between -25°C and 70°C (-13°F and 158°F); better than 2.0°C (3.6°F) between -40°C and -25°C (-40°F and -13°F)

##### ACR ET Series Thermistor Probes\*

	Range	Cat#
General Purpose Temperature Probe	-35°C to 95°C (-30°F to 200°F)	35-0001
Low Temperature Probe	-60°C to 55°C (-75°F to 130°F)	35-0028
Low Temperature Penetration Probe	-60°C to 55°C (-75°F to 130°F)	35-0000
High Temperature Probe	10°C to 170°C (50°F to 335°F)	35-0002
Oven Temperature Probe	70°C to 255°C (155°F to 490°F)	35-0003
Skin Surface Temperature Probe	20°C to 40°C (68°F to 104°F)	35-0020
Pipe Surface Temperature Probe	-35°C to 95°C (-30°F to 200°F)	35-0025
Waterproof Temperature Probe	-40°C to 105°C (-40°F to 221°F)	35-0035

\*For remote temperature measurements (external channel)

#### ORDERING INFORMATION

<b>Item</b>	<b>Cat#:</b>
SR-001-32K	01-0024

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ISO 9001 Certified

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