SmartReader 8

Product Specifications

Type: *Eight-Channel Temperature Thermistor*

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:	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:	Eight *(one for the internal temperature sensor and seven for remote sensing of temperature, resistance, or switch status)*

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:	+/- 0.2ºC over the range of 0 to 70ºC (+/- 0.3ºF over the range of 32 to 158ºF)
Resolution:	0.4ºC (0.7ºF) @ 25ºC; better than 1ºC (1.8ºF) between -25 and 70˚C (-13º and 158ºF); better than 2.0ºC (3.6˚F) between -40 and -25˚C (-40ºF and -13ºF)

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

**For remote temperature measurements (external channels)*

The SmartReader 8 data logger can measure temperature in eight different locations simultaneously using ACR's ET series thermistor probes. Monitor and record high temperature, low temperature, pipe surface, skin surface, or a variety of other temperatures.



WARRANTY

Internal Battery:	**10 Years**
Data Logger:	**3 Years**

APPLICATIONS

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

Model#:	**Cat#:**
SR-008	01-0036