SmartReader 6

Product Specifications

Type: *Seven-Channel Temperature Thermocouple*

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
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 2 *(compatible with Windows® 2000, and XP)*

Memory Size:	32KB; capable of storing 32,768 readings
Sampling Rates:	User selectable rates, from 8 seconds to 5 days in 4-second increments
Number of Channels:	Seven (One internal thermistor for cold-junction compensation and six external channels for thermocouple inputs)

SENSOR SPECIFICATIONS

Temperature Sensor (internal)

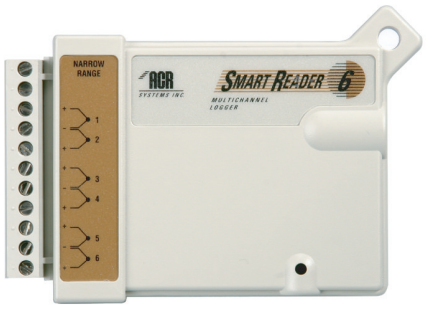
Type:	NTC Thermistor - 10,000 Ohm @ 25˚C (77˚F)
Range:	-40 to 70˚C (-40 to 158˚F)
Accuracy:	+/- 0.2˚C over the range of 0 to 70˚C (+/- 0.3˚F over the range of 32 to 158˚F)
Resolution:	0.4˚C (0.7˚F) @ 25˚C; better than 1˚C (1.8˚F) between -25 and 70˚C (-13˚ and 158˚F); better than 2.0˚C (3.6˚F) between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

Temperature Ranges and Resolution:

SR-006N (Narrow Range Version)	*Range*	*Resolution*
J type thermocouple:	-20 to 190˚C (0 to 370˚F)	1.4˚C (2.5˚F)
K type thermocouple:	-25 to 230˚C (-10 to 440˚F)	1.4˚C (3˚F)
S type thermocouple:	0 to 960˚C (32 to 1750˚F)	7.0˚C (12.6˚F)
T type thermocouple:	-35 to 200˚C (-30 to 390˚F)	1.7˚C (3˚F)
SR-006W (Wide Range Version)		
J type thermocouple:	-50 to 600˚C (-55 to 1100˚F)	5˚C (9˚F)
K type thermocouple:	-100 to 900˚C (-145 to 1650˚F)	6.7˚C (12˚F)
S type thermocouple:	0 to 1760˚C (32 to 3200˚F)	23˚C (41.5˚F)
T type thermocouple:	-200 to 400˚C (-325 to 750˚F)	6.7˚C (12˚F)

Accuracy: +/- 1% of span + resolution

The SmartReader 6 data logger is ideal for those applications that require multi-site temperature monitoring of extremely high temperatures or wide temperature ranges. The logger has one internal channel for measuring ambient temperature and six external channels for use with ACR thermocouple wire or any J, K, S or T type



WARRANTY

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

APPLICATIONS

Monitoring performance of gas-fired heating equipment, verifying concrete curing temperatures, process verification, etc.

Model#:	**Cat#:**
SR-006N	01-0029
SR-006W	01-0030