SmartReader 5
Product Specifications

Type: Three-Channel Temperature Thermocouple

GENERAL SMARTREADER SPECIFICATIONS

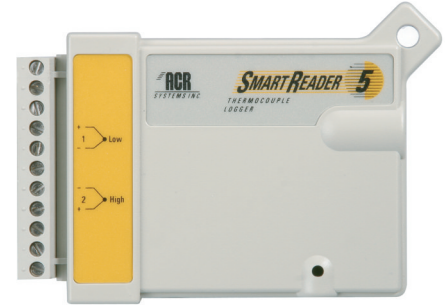|	
Size:	107 mm x 74 mm x 22 mm (4.2" x 2.9" x 0.9")
Weight:	110 grams (3.75 ounces)
Case Material:	Noryl® plastic
Battery:	3.6 volt Lithium, guaranteed for ten years
Resolution:	8-bit (1 part in 256)
Mounting:	Magnetic backing or lock eyelet
Clock Accuracy:	+/- 2 seconds per day
Sampling Methods:	Continuous (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#: 01-0028, SR-005)*
Sampling Rates:	User selectable rates from 8 seconds to 5 days in 4-second increments
Number of Channels:	Three (one internal thermistor for cold-junction compensation and two external; one for narrow range thermocouple applications, the other for a wider range)

Thermocouple Types and Resolution

Type		Range	Resolution
J type:	Channel #2 (Wide):	-50 to 600˚C (-55 to 1100˚F)	5˚C (9˚F)
	Channel #1 (Narrow):	-20 to 190˚C (0 to 370˚F)	1.4˚C (2.5˚F)
K type:	Channel #2 (Wide):	-100 to 900˚C (-145 to 1650˚F)	6.7˚C (12˚F)
	Channel #1 (Narrow):	-25 to 230˚C (-10 to 440˚F)	1.7˚C (3˚F)
S type:	Channel #2 (Wide):	0 to 1760˚C (32 to 3200˚F)	23˚C (41.5˚F)
	Channel #1 (Narrow):	0 to 960˚C (32 to 1750˚F)	7˚C (12.6˚F)
T type:	Channel #2 (Wide):	-200 to 400˚C (-325 to 750˚F)	6.7˚C (12˚F)
	Channel #1 (Narrow):	-35 to 200˚C (-30 to 390˚F)	1.7˚C (3˚F)

Accuracy: ± 1% of span + resolution

The SmartReader 5 is designed for easy temperature recording from J, K, S or T type thermocouples either locally, or remotely via modem. Ideal for data logging temperatures over a very wide temperature range. Several SmartReader 5 loggers can be connected together to form a network.

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-005	01-0028