



SmartReader 6 This product has been discontinued. Please see [SmartReader Plus 6](#)

Seven-Channel Temperature Data Logger

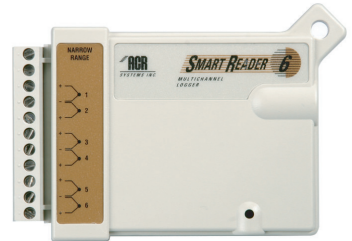
The SmartReader 6 data logger is ideal for those applications that require multi-site temperature monitoring of extremely high temperatures or wide temperature ranges. The logger has one internal channel for measuring ambient temperature and six external channels for use with ACR thermocouple wire or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

APPLICATIONS

Monitoring performance of gas-fired heating equipment, verifying concrete curing temperatures, process verification, 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
- 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: Seven (One internal thermistor for cold-junction compensation and six external channels for thermocouple inputs)



SENSOR SPECIFICATIONS

Internal Temperature Sensor

- Type: NTC Thermistor - 10,000 Ohms @ 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)

Temperature Ranges and Resolution:

SR-006N (Narrow Range Version)

	Range	Resolution
J Type thermocouple:	-20°C to 190°C (0°F to 370°F)	1.4°C (2.5°F)
K Type thermocouple:	-25°C to 230°C (-10°F to 440°F)	1.7°C (3°F)
S Type thermocouple:	0°C to 960°C (32°F to 1750°F)	7°C (12.6°F)
T Type thermocouple:	-35°C to 200°C (-30°F to 390°F)	1.7°C (3°F)

SR-006W (Wide Range Version)

	Range	Resolution
J Type thermocouple:	-50°C to 600°C (-55°F to 1100°F)	5°C (9°F)
K Type thermocouple:	-100°C to 900°C (-145°F to 1650°F)	6.7°C (12°F)
S Type thermocouple:	0°C to 1760°C (32°F to 3200°F)	23°C (41.5°F)
T Type thermocouple:	-200°C to 400°C (-325°F to 750°F)	6.7°C (12°F)

Accuracy: ±1% of range + resolution

ORDERING INFORMATION

Item		Cat#:
SR-006N-32K	(SmartReader 6 - Narrow Range Version)	01-0029
SR-006W-32K	(SmartReader 6 - Wide Range Version)	01-0030

ACR Systems Inc
Toll-Free: 1.800.663.7845
Tel: 1.604.591.1128
sales@acrsystems.com

www.acrsystems.com

ISO 9001 Certified

ISO9000\SPECIFICATIONS\SR6.pdf



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