



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

**Seven-Channel Temperature Data Logger**

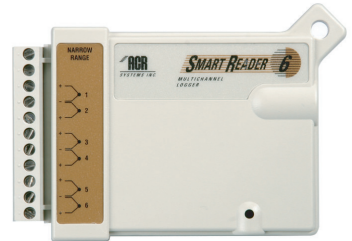
The SmartReader 6 data logger is ideal for those applications that require multi-site temperature monitoring of extremely high temperatures or wide temperature ranges. The logger has one internal channel for measuring ambient temperature and six external channels for use with ACR thermocouple wire or 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 SP3, Windows Vista SP2 & Windows 7 (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)**

|                      | <b>Range</b>                    | <b>Resolution</b> |
|----------------------|---------------------------------|-------------------|
| 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)**

|                      | <b>Range</b>                       | <b>Resolution</b> |
|----------------------|------------------------------------|-------------------|
| 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**

- SR-006N-32K (SmartReader 6 - Narrow Range Version)
- SR-006W-32K (SmartReader 6 - Wide Range Version)

**Cat#:**

- 01-0029
- 01-0030

[www.acrsystems.com](http://www.acrsystems.com)

ISO 9001 Certified

ISO9000\SPECIFICATIONS\SR6.pdf



Rev:10 - 28/04/11

