



SmartReader 8

Eight-Channel Temperature Data Logger

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

APPLICATIONS

Food process verification, pharmaceutical and/or laboratory storage, transportation of temperature-sensitive goods, equipment run time, HVAC system testing and balancing, 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: | Eight (One for the internal temperature sensor and seven for remote sensing of temperature, resistance, or switch status.) |



SENSOR SPECIFICATIONS

Internal Temperature Sensor

| | |
|-------------|---|
| Type: | NTC Thermistor - 10,000 Ohm @ 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) |

ACR ET Series Thermistor Probes*

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

*For remote temperature measurements (external channels)

ORDERING INFORMATION

| Item | Cat#: |
|------------|---------|
| SR-008-32K | 01-0036 |

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\SR8.pdf



Rev:11 - 11/06/12

