

# SmartReader Plus 8

## Product Specifications

**Type:** Eight-Channel Temperature Thermistor

### GENERAL 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:** 12-bit (1 part in 4096)  
**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)  
*\*Not available with sample rates faster than eight seconds*  
**Operating Limits:** -40 to 70°C (-40 to 158°F) and 0 to 95% RH (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® 2 (compatible with Windows® 2000, and XP)

**Memory Size:** 32KB (capable of storing up to 21,500 readings)  
 (3 models available) 128KB (capable of storing up to 87,000 readings)  
 1.5MB (capable of storing up to 1,048,000 readings)  
**Sampling Rates:** User selectable rates from 25 per second to once every eight hours (BP-101 battery pack or PS-201 power supply required for sampling rates faster than eight seconds)  
**Number of Channels:** Eight (one for the internal temperature sensor and seven for remote sensing of temperature, resistance, and/or switch status)

### SENSOR SPECIFICATIONS

**Internal Temperature Sensor** 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:** 0.03°C (0.05°F) @ 25°C; better than 0.07°C (0.12°F) between -25 and 70°C (-13° and 158°F); better than 0.13°C (0.23°F) between -40 and -25°C (-40°F and -13°F)

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

\*For remote temperature measurements (external channels)

The SmartReader Plus 8 data logger is the ideal solution for recording temperature in up to eight different locations simultaneously. Choose from a variety of different thermistor probes.



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

**APPLICATIONS**  
 Food process verification, pharmaceutical storage, transportation of temperature-sensitive goods, equipment run time, HVAC system testing and balancing, etc.

Model#:	Cat#:
SRP-008	01-0015
SRP-008-128K	01-0129
SRP-008-1.5M	01-0158