

# SmartReader Plus 7

## Product Specifications

**Type:** Eight-Channel Process Signal

### GENERAL SMARTREADER PLUS 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:** 12-bit (1 part in 4096)  
**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)  
 \*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® Standard - Windows version 3.1, 95, 98, Me, NT, 2000, or XP

**Memory Size:** 32KB; capable of storing 21,500 12-bit readings  
 128KB; capable of storing 87,000 12-bit readings  
 1.5MB; capable of storing 1,048,000 12-bit 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 internal thermistor for cold-junction compensation and seven thermocouple inputs)

#### Standard Input Ranges:

- 0 to 2.5 VDC
- 0 to 5.0 VDC (two channels)
- 0 to 10.0 VDC
- 0 to 25 mA DC (two channels)
- 0 to 200 mV DC

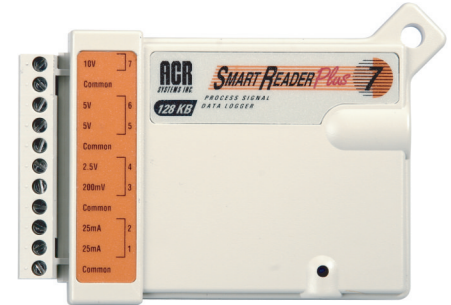
#### Optional Inputs:

- a) All external channels 0-25mA: (cat# 01-0017, 01-0126, 01-0156)
- b) All external channels 0-2.5 VDC: (cat# 01-0018, 01-0127)
- c) All external channels 0-5 VDC: (cat# 01-0107, 01-0124, 01-0154)
- d) All external channels 0-10 VDC: (cat# 01-0020, 01-0125)

**Accuracy:** +/- 0.5% of full scale

**Transducer Restriction:** The use of a single power supply is recommended to avoid ground loops, or else use loop isolators.

The SmartReader Plus 7 is a versatile data logger for easy recording of common process signal variables. With seven input channels, the logger is ideal for monitoring (through commercially available transducers) a wide variety of measurement parameters.



### WARRANTY

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

### APPLICATIONS

Monitoring wind speed, flow, tank level, pressure, current, voltage, power, SCADA troubleshooting, and more.

#### Model#:

#### Cat#:

SRP-007	01-0014
SRP-007-128K	01-0123
SRP-007-1.5M	01-0152
SRP-007-0-2.5V	01-0018
SRP-007-0-2.5V-128K	01-0127
SRP-007-0-5V	01-0107
SRP-007-0-5V-128K	01-0124
SRP-007-0-5V-1.5M	01-0154
SRP-007-0-10V	01-0020
SRP-007-0-10V-128K	01-0125
SRP-007-0-10V-1.5M	01-0155
SRP-007-25mA	01-0017
SRP-007-25mA-128K	01-0126
SRP-007-25mA-1.5M	01-0156