

# SmartReader Plus 4

## Product Specifications

**Type:** Four-Channel Pressure, Temperature & RH

### GENERAL SPECIFICATIONS

<b>Size:</b>	107 mm x 74 mm x 22 mm (4.2" x 2.9" x 0.9")
<b>Weight:</b>	110 grams (3.75 ounces)
<b>Case Material:</b>	Noryl® plastic
<b>Battery:</b>	3.6 volt Lithium
<b>Resolution:</b>	12-bit (1 part in 4096)
<b>Mounting:</b>	Magnetic backing or locking eyelet
<b>Clock Accuracy:</b>	+/- 2 seconds per day
<b>Sampling Methods:</b>	Continuous (First-in, First-out)*, Stop When Full (Fill-then-stop) <i>*Not available with sample rates faster than eight seconds</i>
<b>Operating Limits:</b>	-40 to 70°C (-40 to 158°F) and 0 to 95% RH (non-condensing)
<b>PC Requirements:</b>	IBM PC or 100% compatible with at least one free serial port, 2 MB of RAM memory, and 2 MB of hard disk space
<b>Software Requirements:</b>	TrendReader® Standard 2 (compatible with Windows® 2000, and XP)

<b>Memory Size:</b>	32KB (capable of storing up to 21,500 readings) (2 memory sizes available) 128KB (capable of storing up to 87,000 readings)
<b>Sampling Rates:</b>	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)
<b>Number of Channels:</b>	Four (one internal temperature sensor for ambient temperature, one for pressure, and two for the optional remote relative humidity and temperature probe [model EH-020A])

### SENSOR SPECIFICATIONS

<b>Temperature Sensor (internal)</b>	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)

Pressure Sensor Ranges	Resolution
0 to 10" WC (2.5 kPa) Gauge	0.006"
0 to 5 psi (30 kPa) Gauge	0.003 psi (0.02 kPa)
0 to 30 psi (200 kPa) Absolute	0.015 psi (0.1 kPa)
0 to 30 psi (200 kPa) Gauge	0.015 psi (0.1 kPa)
0 to 100 psi (700 kPa) Absolute	0.05 psi (0.34 kPa)
0 to 100 psi (700 kPa) Gauge	0.05 psi (0.34 kPa)
0 to 150 psi (1000 kPa) Gauge	0.05 psi (0.34 kPa)

**Calibrated Accuracy**  
+/- 0.5% of full scale @ 25°C (77°F)

The SmartReader Plus 4 data logger provides easy monitoring and troubleshooting of pneumatic control systems. The unit is completely self-contained with a 1/4" quick-release pressure fitting to allow a fast and trouble-free connection. As an added bonus, the SmartReader Plus 4 also monitors temperature and relative humidity.



### WARRANTY

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

### APPLICATIONS

Performance tracking of pneumatically controlled valves; verifying thermostat and humidistats; monitoring sensitive shipments, etc.

Model#:	Cat#:
SRP-004-010	01-0090
SRP-004-010-128K	01-0120
SRP-004-5G	01-0091
SRP-004-5G-128K	01-0115
SRP-004-30G	01-0093
SRP-004-30G-128K	01-0117
SRP-004-30A	01-0092
SRP-004-30A-128K	01-0116
SRP-004-100G	01-0095
SRP-004-100G-128K	01-0119
SRP-004-100A	01-0094
SRP-004-100A-128K	01-0118
SRP-004-150G	01-0097
SRP-004-150G-128K	01-0139