



## SmartReader Plus 4

### Four-Channel Pressure, Temperature and Relative Humidity Data Logger

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.

#### APPLICATIONS

Performance tracking of pneumatically controlled valves; verifying thermostat and humidistats; monitoring sensitive shipments, 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:	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) <i>*Not available with sample rates faster than eight seconds</i>
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 21,500 readings) <i>(2 memory sizes available)</i> 128 KB (capable of storing up to 87,000 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:	Four (one internal sensor for ambient temperature, one for pressure, and two for optional remote relative humidity and temperature probe [model EH-020A])



#### SENSOR SPECIFICATIONS

##### Internal Temperature Sensor

Type:	NTC Thermistor - 10,000 @ 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:	0.03°C (0.05°F) @ 25°C; better than 0.07°C (0.12°F) between -25°C and 70°C (-13°F and 158°F); better than 0.13°C (0.23°F) between -40°C and -25°C (-40°F and -13°F)

Pressure Sensor Ranges	Resolution	Pressure Sensor Ranges	Resolution
0 to 10 inWC (2.5 kPa) Gauge	0.006 inWC (1.5 Pa)	0 to 100 PSI (700 kPa) Absolute	0.05 psi (0.34 kPa)
0 to 5 PSI (30 kPa) Gauge	0.003 PSI (0.02 kPa)	0 to 100 PSI (700 kPa) Gauge	0.05 psi (0.34 kPa)
0 to 30 PSI (200 kPa) Absolute	0.015 PSI (0.1 kPa)	0 to 150 PSI (1000 kPa) Gauge	0.05 psi (0.34 kPa)
0 to 30 PSI (200 kPa) Gauge	0.015 PSI (0.1 kPa)		

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

#### ORDERING INFORMATION

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

ACR Systems Inc  
 Toll-Free: 1.800.663.7845  
 Tel: 1.604.591.1128  
 sales@acrsystems.com

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

ISO 9001 Certified

ISO9000\SPECIFICATIONS\SRP4.pdf

Rev:9 - 02/02/10

