



SmartReader 4

Five-Channel Pressure, Temperature and Relative Humidity Data Logger

The SmartReader 4 data logger records pressure, temperature and relative humidity. Use it to monitor and troubleshoot pneumatic systems. With a variety of pressure sensors available, you can tailor the logger to suit your needs. As an added bonus, the SmartReader 4 can tailor the logger to suit your needs. As an added bonus, the SmartReader 4 can also monitor temperature and relative humidity. All probes and sensors are sold separately.

APPLICATIONS

Tracking performance 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:	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 SP3, Windows Vista SP2 & Windows 7 (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:	Five (one internal for ambient temperature, one for optional internal RH sensor, one for optional pressure sensor, and two for optional remote RH and temperature probe [model EH-020A])



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)

Pressure Sensors	Range	Resolution	Cat#
PM-005-G	0 to 5 psi (30 kPa) Gauge	0.03 psi (0.21 kPa)	01-0045
PM-030-A	0 to 30 psi (200 Kpa) Absolute	0.15 psi (1.0 kPa)	01-0046
PM-030-G	0 to 30 psi (200 kPa) Gauge	0.15 psi (1.0 kPa)	01-0047
PM-100-A	0 to 100 psi (700 kPa) Absolute	0.5 psi (3.5 kPa)	01-0048
PM-100-G	0 to 100 psi (700 kPa) Gauge	0.5 psi (3.5 kPa)	01-0049
PM-150-G	0 to 150 psi (1000 kPa) Gauge	0.5 psi (3.5 kPa)	01-0086

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

ORDERING INFORMATION

Item	Cat#:
SR-004 (SmartReader 4)	01-0027

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ISO 9001 Certified

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