

SmartReader 4

Product Specifications

Type: Five-Channel Pressure, Temperature & RH

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: 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 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 (compatible with Windows® 3.1, '95, '98, 2000, Me, NT and XP)

Memory Size: 32KB (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 temperature sensor 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

Temperature Sensor (internal)

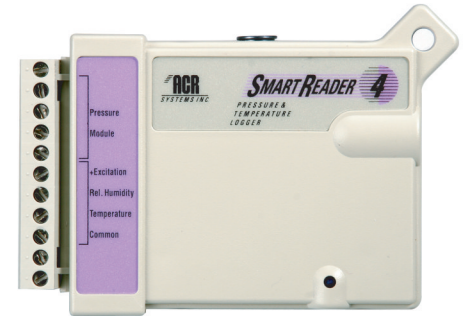
Type: NTC Thermistor - 10,000 Ohm @ 25°C (77°F)
Range: -40 to 70°C (-40 to 158°F)
Accuracy: +/- 0.2°C over the range of 0 to 70°C (+/- 0.3°F over the range of 32 to 158°F)
Resolution: 0.4°C (0.7°F) @ 25°C; better than 1°C (1.8°F) between -25 and 70°C (-13° and 158°F); better than 2.0°C (3.6°F) between -40 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)

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 also monitor temperature and relative humidity. All probes and sensors are sold separately.



WARRANTY

Internal Battery: 10 Years
Data Logger: 3 Years

APPLICATIONS

Tracking performance of pneumatically controlled valves; verifying thermostat and humidistats; monitoring sensitive shipments, etc.

Model#: **Cat#:**

SR-004 01-0027