# SmartReader Plus 4

## *Product Specifications*

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

### GENERAL SPECIFICATIONS

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|---|---|
| **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:** | 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)<br>**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 2 *(compatible with Windows® 2000, and XP)* |

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| **Memory Size:**<br>*(2 memory sizes available)* | 32KB *(capable of storing up to 21,500 readings)*<br>128KB *(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 temperature sensor for ambient temperature, one for pressure, and two for the optional remote relative humidity and temperature probe [model EH-020A])* |

### SENSOR SPECIFICATIONS

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| **Temperature Sensor (internal)** | NTC Thermistor - 10,000 Ohm @ 25˚C (77˚F) |
| Range: | -40 to 70˚C (-40 to 158˚F) |
| Accuracy: | +/- 0.2ºC over the range of 0 to 70ºC (+/- 0.3ºF over the range of 32 to 158ºF) |
| Resolution: | 0.03ºC (0.05ºF) @ 25ºC; better than 0.07ºC (0.12ºF) between -25 and 70˚C (-13º and 158ºF); better than 0.13ºC (0.23˚F) between -40 and -25˚C (-40ºF and -13ºF) |

| **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

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|---|---|
| **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 |