

SmartReader Plus 4 LPD

Product Specifications

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® plasticBattery:3.6 volt LithiumResolution: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)

*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) 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® 2 (compatible with Windows® 2000, and XP)

Memory Size: 32KB (capable of storing up to 21,500 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: Two (one for the internal temperature sensor and one for the internal pressure

sensor)

SENSOR SPECIFICATIONS

Temperature Sensor (internal) 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

Type: Silicon piezoresistive strain gauge Media: Non-corrosive gases and dry air

Maximum Pressure: Four times full scale

Range: Accuracy: Resolution:

The SmartReader Plus 4 LPD (Low Pressure Differential) logger is a two channel logger with internal pressure and temperature sensors. The low pressure sensor is built into the logger and is capable of measuring low gauge and differential pressure.



Type: Two-Channel Low Pressure

Differential & Temperature

WARRANTY

Internal Battery: 10 Years
Data Logger: 3 Years

APPLICATIONS

Commissioning HVAC systems, monitoring air duct velocity, testing and balancing HVAC systems, monitoring wind speed, verifying room pressure in critical care facilities, etc.

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