

Product Specifications

PROVEN DATA LOGGING SOLUTIONS



SMART READER!

SmartReader Plus 5

Three-Channel Temperature Data Logger

The SmartReader Plus 5 data logger is ideal for those applications that require monitoring extremely high temperatures or monitoring temperature over a wide range. The logger has one internal channel for measuring ambient temperature and two external channels for use with ACR thermocouple wire or any J, K, S, T or E type thermocouple wire.

APPLICATIONS

Monitor performance of gas-fired heating equipment, verifying concrete curing temperatures, process verification, etc.

GENERAL SPECIFICATIONS

107mm x 74mm x 22mm (4.2" x 2.9" x 0.9") Size:

Weight: 110 g (3.75 oz) Noryl[®] Plastic Case Material: Battery: 3.6 volt Lithium Resolution: 12-bit (1 part in 4096)

Mounting: Magnetic backing or locking eyelet

± 2 seconds per day Clock Accuracy:

Sampling Methods: Continuous (First-in First-out)*, Stop When Full (Fill-then-stop)

*Not available with sample rates faster than eight seconds

-40°C to 70°C (-40°F to 158°F) and 0 to 95% RH (non-condensing) Operating Limits:

PC Requirements: Windows PC with at least one free USB or serial port (depending on interface) Software Requirements: TrendReader® 2 (Compatible with Windows XP, Vista, Windows 7 and Windows 8

[32 bit & 64 bit])

32 KB (capable of storing up to 21,500 readings) Memory Size: 128 KB (capable of storing up to 87,000 readings) (2 models available)

User selectable rates from 25 per second to once every eight hours (BP-101 Sampling Rates:

battery pack or PS-201 power supply required for sampling rates faster than

eight seconds)

Number of Channels: Three (one internal thermistor for cold-junction compensation and two external

channels for narrow range and wide range thermocouples)

SENSOR SPECIFICATIONS

Internal Temperature Sensor

NTC Thermistor - 10,000 Ohm @ 25°C (77°F) Type:

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) 0.03°C (0.05°F) @ 25°C; better than 0.07°C (0.12°F) between -25°C and 70°C Resolution: (-13°F and 158°F); better than 0.13°C (0.23°F) between -40°C and -25°C

 $(-40^{\circ} \text{F and } -13^{\circ} \text{F})$

Thermocouple Wire Resolution -50°C to 600°C (-55°F to 1100°F) J Type 0.30°C (0.55°F) -100°C to 1150°C (-145°F to 2100°F) 0.50°C (0.90°F) K Type 0°C to 1450°C (32°F to 2642°F) S Type 1°C (1.8°F) -200°C to 400°C (-325°F to 750°F) 0.40°C (0.75°F) T Type -50°C to 680°C (-58°F to 1250°F) 0.24°C (0.44°F) E Type

Accuracy: ±0.5% of range + resolution

ORDERING INFORMATION

Cat#: Item: SRP-005-32K 01-0012 SRP-005-128K 01-0121

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ISO 9001 Certified



