



JR-1001 Intrinsically Safe Single-Channel Temperature Data Logger

The JR-1001 is an Intrinsically Safe, simple and easy-to-use single-channel data logger. It is ideal for quick and accurate temperature recordings in a variety of applications.

APPLICATIONS

Flammable and explosive environments, military, oil & gas processing and transportation, pharmaceutical storage, laboratories, transportation of temperature sensitive goods.



GENERAL SPECIFICATIONS

Size:	33mm x 43mm x 20mm (1.3" x 1.7" x 0.75")
Weight:	35 g (1.23 oz)
Case Material:	Polyurethane
Battery:	3.6 volt Lithium, 0.45 Amp-Hour
Resolution:	8-bit (1 part in 256)
Mounting:	Magnetic backing
Clock Accuracy:	± 2 seconds per day
Sampling Methods:	First-in First-out, Stop When Full, Delay Start, or Spot & Average
Operating Limits:	-40°C to 85°C (-40°F to 185°F) and 0 to 95% RH (non-condensing)
PC Requirements:	Windows PC with at least one free USB or serial port (depending on connection)
Software Requirements:	TrendReader® 2 Express or TrendReader® 2 (Compatible with Windows XP, Vista, Windows 7 and Windows 8 [32 bit & 64 bit])
Approval:	Intrinsically Safe for use in: Class I, Division 1, Groups C and D; Class II, Division 1, Groups E, F and G; Class III, Division 1 Hazardous Locations T4
Memory Size:	32 KB (capable of storing up to 244,800 readings when data compression is selected)
Sampling Rates:	User selectable rates from 8 seconds to 34 minutes (readings stored to memory can be spot or averaged over the sample interval, except for the 8-second interval)
Number of Channels:	One (one internal channel for ambient temperature)

SENSOR SPECIFICATIONS

Temperature Sensor Type:	NTC Thermistor - 10,000 Ohms @ 25°C (77°F)
Range:	-40°C to 85°C (-40°F to 185°F)
Accuracy:	±0.2° over the range of 0°C to 70°C (±0.3°C 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)

INTRINSICALLY SAFE



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Class I, Division 1, Groups C and D;
Class II, Division 1, Groups E, F and G;
Class III, Division 1 Hazardous Locations T4
WARNING! Do not make any connections unless area is known to be non-hazardous

ORDERING INFORMATION

Item
JR-1001

Cat#:
01-0193

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ISO 9001 Certified

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