



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® Express or TrendReader® 2 (Compatible with Windows 2000 SP4, XP SP1 and Vista 32 bit)
Approval:	Intrinsically Safe for use in Class 1, Div 1, Groups A, B, C, D, Class II, Div 1, Groups E, F, G, Class III, Div 1 Hazardous
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)