JR-1001 Intrinsically Safe

Product Specifications

Type: *Single-Channel Temperature Thermistor*

GENERAL SPECIFICATIONS

Size:	33 mm x 43 mm x 20 mm (1.3" x 1.7" x 0.75")
Weight:	35 grams (1.23 ounces)
Case Material:	Polyurethane
Battery:	3.6 volt Lithium, 0.45 Amp-Hour
Resolution:	8-bit (1 part in 256)
Mounting:	Stand-alone or magnetic backing
Clock Accuracy:	+/- 2 seconds per day
Sampling Methods:	First-in First-out, Stop When Full *(option to delay start, spot or average samples)*
Operating Limits:	-40 to 85˚C (-40 to 185˚F) and 0 to 95% RH (non-condensing)
PC Requirements:	IBM PC or 100% compatible with at least one free serial port, 2 MB RAM, and 10 MB hard drive disk space
Software Requirements:	TrendReader® Express *(compatible with Windows® 3.1, 95, 98, Me, 2000, NT and XP)*
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 data points 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 to 85˚C (-40 to 185˚F)
Accuracy:	+/- 0.2ºC over the range of 0 to 70ºC (+/- 0.3ºF over the range of 32 to 158ºF)
Resolution:	0.4ºC (0.7ºF) @ 25ºC; better than 1ºC (1.8ºF) between -25 and 70˚C (-13º and 158ºF); better than 2.0ºC (3.6˚F) between -40 and -25˚C (-40ºF and -13ºF)

The JR-1001 data logger 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.



WARRANTY

Internal Battery:	**5 Years**
Data Logger:	**3 Years**

APPLICATIONS

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

Model#:	**Cat#:**
JR-1001	01-0193