

JR-1001 Intrinsically Safe

Product Specifications

Type: Single-Channel Temperature Thermistor

GENERAL SPECIFICATIONS

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| 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 <i>(option to delay start, spot or average samples)</i> |
| 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 <i>(compatible with Windows® 3.1, 95, 98, Me, 2000, NT and XP)</i> |
| 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 |

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| Memory Size: | 32 KB <i>(capable of storing up to 244,800 data points when data compression is selected)</i> |
| Sampling Rates: | User selectable rates from 8 seconds to 34 minutes <i>(readings stored to memory can be spot or averaged over the sample interval, except for the 8-second interval)</i> |
| Number of Channels: | One <i>(one internal channel for ambient temperature)</i> |

SENSOR SPECIFICATIONS

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| Temperature Sensor: | NTC Thermistor - 10,000 ohms @ 25°C (77°F) |
| Type: | -40 to 85°C (-40 to 185°F) |
| Range: | +/- 0.2°C over the range of 0 to 70°C (+/- 0.3°F over the range of 32 to 158°F) |
| Accuracy: | |
| Resolution: | 0.4°C (0.7°F) @ 25°C; better than 1°C (1.8°F) between -25 and 70°C (-13°F and 158°F); better than 2.0°C (3.6°F) between -40 and -25°C (-40°F and -13°F) |

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

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

APPLICATIONS

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

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