Product Specifications

PROVEN DATA LOGGING SOLUTIONS

JR-1000

Single-Channel Temperature Data Logger

The JR-1000 is the easiest to use temperature data logger available. With its precision calibrated internal temperature sensor, simply place the logger in the field and leave it to record. Once the desired information has been recorded, plug the logger into the serial port of your computer and begin downloading and viewing the logged data with ACR's simple TrendReader® Express software or feature filled TrendReader® 2 software.

APPLICATIONS

Food process verification, pharmaceutical storage, laboratories, transportation of temperature sensitive goods, equipment run time, HVAC system testing and balancing etc.

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)
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)