



EZ500 Series Thermocouple 3-channel Data Logger

EZ500 Series data loggers are ideal for those applications that require monitoring extremely high temperatures or monitoring temperature over a wide range. The logger has one internal channel for measuring ambient temperature and two external channels for use with any J, K, S, T or E type thermocouple wire.

APPLICATIONS

Monitor performance of gas-fired heating equipment, verifying concrete curing temperatures, process verification, etc.

GENERAL SPECIFICATIONS

Size:	107mm x 74mm x 22mm (4.2" x 2.9" x 0.9")
Weight:	110 gm
Case Material:	Noryl [®] Plastic
Battery:	3.6 volt Lithium
Resolution:	12-bit (1 part in 4096)
Mounting:	Magnetic backing or locking eyelet
Clock Accuracy:	± 2 seconds per day
Sampling Methods:	Continuous (First-in First-out)*, Stop When Full (Fill-then-stop) <i>*Not available with sample rates faster than eight seconds</i>
Operating Limits:	-40°C to 70°C and 0 to 95% RH (non-condensing)
PC Requirements:	Windows PC with at least one free USB or serial port (depending on interface)
Software Requirements:	EZSoft TrendLog [®] 1 (Compatible with Windows XP and Vista 32 bit)
Memory Size:	32 KB (capable of storing up to 21,500 readings)
<i>(2 models available)</i>	128 KB (capable of storing up to 87,000 readings)
Sampling Rates:	User selectable rates from 25 per second to once every eight hours (Note: battery pack or power supply required for sampling rates faster than eight seconds)
Number of Channels:	Three (one internal thermistor for cold-junction compensation and two external channels for narrow range and wide range thermocouples)

SENSOR SPECIFICATIONS

Internal Temperature Sensor

Type:	NTC Thermistor - 10,000 Ohm @ 25°C
Range:	-40°C to 70°C
Accuracy:	±0.2°C over the range of 0°C to 70°C
Resolution:	0.03°C @ 25°C; better than 0.07°C between -25°C and 70°C; better than 0.13°C between -40°C and -25°C

Thermocouple Wire	Range	Resolution
J Type	-50°C to 600°C	0.30°C
K Type	-100°C to 1150°C	0.50°C
S Type	0°C to 1450°C	1°C
T Type	-200°C to 400°C	0.40°C
E Type	-50°C to 680°C	0.24°C

Accuracy: ±0.5% of range + resolution

ORDERING INFORMATION