Product Specifications

PRECISION LOGGERS

Thermocouple Logger

Overview

Precision Loggers™ Thermocouple Logger uses a next-generation EMF-to-temperature converter to measure and record an extreme temperature range. Because it supports 8 different types of hot junctions, this logger has a surpringly wide range of applications. Additionally, a reference cold junction channel is made available. Fully wireless, the logger communicates using Bluetooth® Low Energy (BLE) technology and recharges inductively.

General Specifications

Dimensions:	116 mm × 42 mm × 15 mm
Weight:	100 grams (approx.)
Battery:	2 000 mAh rechargeable lithium polymer
Charging System:	Wireless
Communication:	Bluetooth® 5
Mounting:	Magnetic
Clock Accuracy:	± 2 seconds per day
Sampling Methods:	Continuous or stop when full
Operating Temperature Range:	-10 °C to 60 °C
Computer Hardware Requirements:	Bluetooth LE adapter
Computer Software Requirements:	Precision Loggers application
Operating System Software Compatibility:	macOS and Windows. More support under development
Memory Size:	8 000 to 32 000 readings
Number of Channels:	1 to 4
Extra Channel Types:	Cold Junction Temperature
Approximate Logging Time on Full Battery:	> 1 month

Applications

◊ Detecting thermal shock that could cause stress on construction materials during production
◊ Analyzing temperature uniformity in ovens
◊ Tracking overheating in data centres

Sensor Specifications

Thermocouple Hot Junction Types:	K, J, T, N, S, E, B, R
Hot-Junction Measurement Accuracy:	±0.5°C/±1.5°C
Sensor Resolution:	Hot and cold junctions: ±0.0625°C
Converter Type:	EMF to temperature
Cold-junction compensation:	True