

Minnow 1.0T Portable Temperature Data Logger

Description:

The Minnow is a portable, battery operated temperature data logger able to store 65,520 samples of temperature along with a time stamp. The Minnow runs off a CR2450 coin cell battery that enables it to run for over 4 years while logging. The Minnow is also has a real time logging mode that allows it to display data on the PC as it happens.

A free PC application is provided with the Minnow logger and communications are made via a micro-B USB connector on the side of the unit. The PC application is used for configuration, data extraction and analysis.

The circuit assembly is coated to protect the electronics from wet and condensing environments.

The Minnow is available with an optional **NIST Traceable** single point calibration at any temperature between 15°C and 40°C. Once calibrated the unit is accurate to $\pm 0.1^{\circ}\text{C}$ within $\pm 20^{\circ}\text{C}$ of the calibration point.



Temperature Sensor:

- Range: -25°C to 75°C
- Resolution: 0.01°C
- Accuracy: $\pm 0.13^{\circ}\text{C}$ (0°C to 65°C) $\pm 0.3^{\circ}\text{C}$ else
Cal Accuracy: $\pm 0.07^{\circ}\text{C}$ ($\pm 20^{\circ}\text{C}$ of Cal Temp)

Data Storage:

- 65,520 samples

Start Modes:

- Push button start
- Scheduled start
- Start on disconnect from PC
- Real time logging (displays real time data when connected to a PC)

Alarms:

- High and Low temperature alarms
- Dedicated Alarm LED

Connections:

- USB Micro-B to PC (included)

Power:

- User replaceable CR2450 battery
- Over 4 year battery life while logging
- Bypass mode: Unit is powered from USB when connected to PC to conserve the battery

Real Time Clock:

- Time automatically synced to PC or Phone
- Battery backup. Continues to keep time when off
- Accuracy: 0.50 sec/day ($\sim 3 \text{ min/year}$)

Dimensions:

- 53 mm x 33 mm x 15 mm