

Description	Temp1000P	
Temperature Sensor	Integral 7 in probe 100 Ω Platinum RTD	
Body Temperature Range	-40 °C to +125 °C*	
Probe Temperature Range	-100 °C to +260 °C	
Temperature Resolution	0.05 °C	
Calibrated Accuracy	±0.5 °C	
Memory	32,767	
Reading Rate	1 reading every 2 seconds up to 1 reading every 12 hours	
Required Interface Package	IFC110 or IFC200	
Baud Rate	2,400	
Typical Battery Life	1 year	
Operating Environment	-40 °C to +125 °C, 0 %RH to 100 %RH	
Material	Body: 303 Stainless Steel	Probe: 304 Stainless Steel
Submersible	Yes	
Dimensions	Body: 4.5 in x 1.0 in dia. (115 mm x 26 mm x dia.)	Probe: 6.75 in x 3/16 in dia. (172 mm x 5 mm dia.)
Weight	7.3 oz (205 g)	
Approvals	CE	

\* Extended operating temperature ranges available. Contact factory for details.

### Battery Warning

**WARNING: DO NOT SHORT CIRCUIT, RECHARGE, PUNCTURE, INCINERATE, CRUSH, IMMERSE IN WATER, FORCE DISCHARGE, OR EXPOSE TO TEMPERATURES ABOVE 125 °C.**



### Temp1000P

Rugged Temperature Data Logger with 7 in Rigid Probe

## Product Notes

### Getting Started

To access the COM Port for the interface cable, unscrew the key-ring end cap. Screw the end cap onto the data logger until the o-ring cannot be seen, before deploying it.

### Submergibility

The Temp1000P is fully submergible and is rated IP68. It can be placed in environments with up to 230 feet (70 m) of water.

### O-Rings

O-ring maintenance is a key factor when properly caring for the Temp1000P. The o-rings ensure a tight seal and prevent liquid from entering the inside of the device.

Please refer to the application note "O-Rings 101: Protecting Your Data", found on the MadgeTech website, for information on how to prevent O-ring failure.

## Installation Guide

### Installing the Interface cable

- IFC200  
Insert the device into a USB port. The drivers will install automatically.
- IFC110  
Plug the serial cable into the port and verify it is secure.

### Installing the software

Insert the Software USB Stick in an open USB port. If the autorun does not appear, locate the drive on the computer and double click on Autorun.exe. Follow the instructions provided in the Wizard.

## Device Operation

### Connecting and Starting the data logger

- Once the software is installed and running, plug the interface cable into the data logger.
- Connect the USB end of the interface cable into an open USB port on the computer.
- The device will appear in the Connected Devices list, highlight the desired data logger.
- For most applications, select "**Custom Start**" from the menu bar and choose the desired start method, reading rate and other parameters appropriate for the data logging application and click "**Start**". (*"Quick Start" applies the most recent custom start options, "Batch Start" is used for managing multiple loggers at once, "Real Time Start" stores the dataset as it records while connected to the logger.*)
- The status of the device will change to "**Running**", "**Waiting to Start**" or "**Waiting to Manual Start**", depending upon your start method.
- Disconnect the data logger from the interface cable and place it in the environment to measure.

*Note: The device will stop recording data when the end of memory is reached or the device is stopped. At this point the device cannot be restarted until it has been re-armed by the computer.*

### Downloading data from a data logger

- Connect the logger to the interface cable.
- Highlight the data logger in the Connected Devices list. Click "**Stop**" on the menu bar.
- Once the data logger is stopped, with the logger highlighted, click "**Download**". You will be prompted to name your report.
- Downloading will offload and save all the recorded data to the PC.

## Device Maintenance

### Battery Replacement

Materials:

Small Needle Nose Pliers

Replacement Battery (TLH-5902)

- Carefully unscrew the sensor end cap and pull the electronics out.
- The battery is the purple cylinder on the circuit board.
- Gently pull out the old battery.
- Insert the new battery one lead at a time, using pliers to fully push the leads into the sockets. *Note: The battery should be flat against the circuit board, and the positive lead should be closest to the communications jack.*
- Ensure the circuit board is inserted into the white plastic bushing. The sensor cable should not be twisted, or kinked. From the connection to the circuit board, it should run up towards the battery, then down to the sensor.
- Insert the electronics back into the tube and carefully screw the cap on.

### Recalibration

The Temp1000P standard calibration is at two points, 30 °C and 80 °C.