

Description	OT1000
Temperature Sensor	100Ω platinum RTD
Probe Measurement Range	-50 °C to +200 °C (-58 °F to +392 °F)
Temperature Resolution	0.01 °C
Calibrated Accuracy	±0.1 °C for -10 °C to +150 °C (+14 °F to +302 °F) ±0.5 °C (outside of that range)
Memory	20,000 readings; software configurable memory wrap
Sample Rate	1 reading every 2 seconds to 1 every 24 hours
Required Interface Package	IFC200
Baud Rate	115,200
Typical Battery Life	2 years
Operating Environment	-20 °C to +100 °C, (+40 °F to +212 °F) 0 %RH to 100 %RH non-condensing
Submergible	Splashproof (IP67)
Material	Body: TECAFORM® Probe: 304 stainless steel Cable Jacket: Polyurethane
Dimensions	Body: 8 in x 1.75 in dia. (203 mm x 44 mm dia.) Hook ID: 0.5 in (13 mm) Probe: 4 in x transitional dia. 0.13 in to 0.11 in (101 mm x 3 mm to 2.8 mm dia.) Cable Length: 30 in (762 mm)
Weight	8.8 oz (250 g)
Approvals	CE, US (FCC), CA (IS)

### Battery Warning

**WARNING: FIRE, EXPLOSION, AND SEVERE BURN HAZARD. DO NOT SHORT CIRCUIT, CHARGE, FORCE OVER DISCHARGE, DISASSEMBLE, CRUSH, PENETRATE OR INCINERATE. BATTERY MAY LEAK OR EXPLODE IF HEATED ABOVE 80 °C (176 °F).**

*Specifications subject to change.*

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### OT1000

Meat Temperature Recorder with External Probe

## Product Notes

### Getting Started

The OT1000 is designed to monitor internal temperature of meat products in smokehouses, and other ovens up to 212 °F (100 °C) and in refrigerators and freezers down to -22 °F (-30 °C).

To start the logger, unscrew the end cap to access the communication port. Tighten the end cap back onto the data logger to ensure the IP67 (splash proof) rating.

### Submergibility

The OT1000 is rated as IP67 making it ideal for use in wash down environments.

### O-Rings

O-Ring maintenance is a key factor when properly caring for the OT1000. 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.

### 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

#### TLH-5903 Replacement Battery

- Unscrew the larger (probe) endcap from the logger
- Grasp the circuit board firmly on either side of the battery holder with one hand and pull the battery out of the holder with the other
- Install the new battery as shown by the diagram on the bottom of the holder (+ terminal pointing towards the communications jack)

### Recalibration

The OT1000 standard calibration is two point calibration at 30 °C and 135 °C.

#### Pricing:

Recalibration traceable to NIST	\$70.00
Recalibration	\$40.00

#### Additional Services:

Verification Point	\$15.00 per point
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*Prices and specifications subject to change. See MadgeTech's terms and conditions at [www.madgetech.com](http://www.madgetech.com)*

*To send the devices back, visit [www.madgetech.com](http://www.madgetech.com), select Services then RMA Process.*