

Temp1000IS

Intrinsically Safe Temperature
Data Logger



PRODUCT USER GUIDE

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Product Overview

The **Temp1000IS** carries hazardous location, intrinsically safe certification in accordance with the latest issue of: FM3600, FM3610, CAN/CSA-C22.2 No. 60079-0:15, CAN/CSA-C22.2 No. 60079-11:14

Certified Intrinsically Safe for:

- Class 1 Division 1 Group ABCD
- Class 1 Division 2 Group ABCD
- Temperature Class: T4A

Operational Warnings

- When used in hazardous locations, the Temp1000IS is to be **installed prior** to the location becoming hazardous and removed only after the area is no longer hazardous.
- The maximum allowed ambient temperature for the Temp1000IS (under any circumstances) is 80 °C. The minimum rated operating temperature is -40 °C.
- The Temp1000IS is approved for use only with the Tadiran TL-2150/S battery. Replacement with any other battery will void the safety rating.
- Batteries are user replaceable, but are to be removed or replaced only in locations known to be non-hazardous.
- Tampering or replacement of non-factory components may adversely affect the safe use of the product, and is prohibited. Except for replacement of the battery, the user may not service the Temp1000IS. MadgeTech, Inc. or an authorized representative must perform all other service to the product.

Ordering Information

- 902214-00 — Temp1000IS-1 (1 inch Probe)
- 902215-00 — Temp1000IS-2 (2 inch Probe)
- 902216-00 — Temp1000IS-5.25 (5.25 inch Probe)
- 902217-00 — Temp1000IS-7 (7 inch Probe)

Key Ring End Cap

- 902219-00 — Temp1000IS-1-KR (1 inch Probe)
- 902220-00 — Temp1000IS-2-KR (2 inch Probe)
- 902221-00 — Temp1000IS-5.25-KR (5.25 inch Probe)
- 902222-00 — Temp1000IS-7-KR (7 inch Probe)

Accessories

- 900319-00 — IFC400
- 900325-00 — IFC406
- 901745-00 — Battery Tadiran TL-2150/S

Installation Guide

Installing the Software

The Software can be downloaded .Follow the instructions provided in the Installation Wizard.

Installing the USB Interface Drivers

IFC400 or IFC406 — Follow the instructions provided in the Installation Wizard to install the USB Interface Drivers.

Device Operation

Connecting and Starting the Data Logger

1. Once the software is installed and running, plug the interface cable into the docking station (IFC400 or IFC406).
2. Connect the USB end of the interface cable into an open USB port on the computer.
3. Place the data logger into the docking station (IFC400 or IFC406).
4. The data logger will automatically appear under **Connected Devices** within the software.
5. 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.)
6. The status of the device will change to **Running** or **Waiting to Start**, depending upon your start method.
7. 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, unless user selectable memory wrap is enabled. At this point the device cannot be restarted until it has been re-armed by the computer.

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Device Operation (cont'd)

Downloading Data from a Data Logger

1. Place the logger into the docking station (IFC400 or IFC406).
2. Highlight the data logger in the **Connected Devices** list. Click **Stop** on the menu bar.
3. Once the data logger is stopped, with the logger highlighted, click **Download**.
4. Downloading will offload and save all the recorded data to the PC.

Device Maintenance

Battery Replacement

Materials: Replacement Battery (Tadiran TL-2150/S)

1. Move device to a non-hazardous location before replacing battery.
2. Observe Operational Warnings when removing and replacing the battery.
3. Unscrew the bottom of the data logger and remove the battery.
4. Place the new battery into the logger. **Caution:** *Observe correct battery polarity when installing.*
5. Screw the cover onto the data logger.

O-Rings

O-ring maintenance is a key factor when properly caring for the Temp1000IS. 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", for information on how to prevent O-ring failure.

Recalibration

Recalibration is recommended annually.

Additional Services:

Custom calibration and verification point options available, please call for pricing.

Communication

To ensure desired operation of the TEMP1000IS, **please keep the surface clear of any foreign objects or substances.** The TEMP1000IS's data is downloaded through external contact with the IFC400 or IFC406 docking station. Covering the surface with foreign objects (**i.e. Calibration Labels**) can prevent the communication and/or downloading process.

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MadgeTech 4 Software Support:



- Refer to the built-in help section of the MadgeTech 4 Software.

