MADGETECH
WE BUILD DATA LOGGERS

Description	EggTemp
Temperature Sensor	Internal semiconductor
Temperature Range	0 °C to +60 °C (+32 °F to +140 °F)
Temperature Resolution	0.1 °C
Temperature Accuracy	±0.3 °C
Memory	32,767 Readings
Reading Rate	1 reading every 2 seconds up to 1 reading every 12 hours
LED Indicator	Red & Green
Required Interface Package	IFC102 or IFC202
Baud Rate	38,400
Typical Battery Life	1 year
Operating Environment	0 °C to +60 °C (+32 °F to +140 °F), 0 %RH to 100 %RH
Submergible	Yes
Material	Enclosure: HDPE Logger: Stainless Steel
Dimensions	2.25 in x 1.68 in dia. (57.15 mm x 42.67 mm)
Weight	2.02 oz (60 g)
Approvals	-

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 60 °C (140 °F).

Specifications subject to change.
See MadgeTech's terms and conditions at www.madgetech.com

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Product Information Card

EggTemp

EggTemp
Egg Temperature Data Logger

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To view the full MadgeTech product line, visit our website at www.madgetech.com.

Product Notes

Getting Started

The EggTemp is designed to thermally respond to an environment the same way a real egg does, simulating the experience of the actual product.

To start the data logger, unscrew the enclosure to access the data logger. The communication port is located on the end of the data logger. Tighten the enclosure to ensure a waterproof seal.

LEDs

Once started, the green LED will flash at the selected reading rate to indicate that the device is running. The red LED will flash in one second intervals if there is an alarm condition.

Alarm Settings

To change the settings for the temperature alarm:

- Select **Alarm Settings** from the **Device menu** in the MadgeTech software. A window will appear allowing the customer to set the high and low temperature alarms.
- Press **Change** to edit the values.
- Check **Enable Alarm Settings** to enable the feature. The values can be entered in the field manually or by using the scroll bars.
- Click **Save** to save the changes. To clear an active alarm, press **Clear Alarm**.

O-Rings

O-ring maintenance is a key factor when properly caring for the EggTemp. 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

- IFC202
  Insert the device into a USB port. The drivers will install automatically.
- IFC102
  Plug the serial cable into the port and verify it is secure.
- USB-1 or USB-101
  Install the USB drivers from the USB Software Stick provided in the kit, then plug the USB cable into the computer and the serial cable into the serial port.

Installing the software

Insert the Software USB into 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.

Connecting the data logger

- Once the software is installed and running, plug the interface cable into the data logger.

- Click the **Communication Menu**, then **Auto Configure Port**.
- After a moment, a box will appear stating that a device has been found.
- Click **OK**. The **Device Status** box will appear. Click **OK**.
- At this point, communications have been configured for your logger. These settings can be found under the **Communication Menu**.

Note: For additional installation instructions refer to your "Data Logger & Software Operating Manual".

Device Operation

Starting the data logger

- Click **Device Menu** then **Start Device**.
- Choose the desired start method.
- Choose the start parameters by selecting a **Reading Rate** suitable for your application.
- Enter in any other desired parameters and click **Start**.
- A box will appear stating the data logger has been started. Click **OK**.
- 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 data logger to the interface cable.
- Click the **Device Menu** then **Read Device Data**. This will offload all recorded data onto the PC.

Device Maintenance

Battery Replacement

Materials: Replacement Battery (SR1154W)

- Remove the data logger from the egg enclosure
- Unscrew the knurled endcap on the data logger
- Tip the batteries (enclosed in a plastic sleeve) out of the enclosure tube.
- Use a small, dull, non-metallic tool (e.g. pen cap) to push the batteries out of the sleeve.
- Press the new batteries into the sleeve negative (-) end first.
- Place the sleeved batteries in the enclosure tube positive (+) end first.
- Screw the knurled cap back in place.

Recalibration

The EggTemp standard calibration is one point at 25 °C.

Pricing:

Recalibration traceable to NIST	$70.00
Recalibration	$40.00

Call for custom calibration options to accommodate specific application needs.
Prices and specifications subject to change. See MadgeTech's terms and conditions at www.madgetech.com
To send devices to MadgeTech for calibration, service or repair, please use the MadgeTech RMA Process by visiting www.madgetech.com, then under the services tab, select RMA Process.