### EggTemp-RH

**Egg Temperature and Humidity Data Logger**

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Temperature Sensor</strong></td>
<td>Internal semiconductor</td>
</tr>
<tr>
<td><strong>Temperature Range</strong></td>
<td>0 °C to +60 °C (+32 °F to +140 °F)</td>
</tr>
<tr>
<td><strong>Temperature Resolution</strong></td>
<td>0.1 °C</td>
</tr>
<tr>
<td><strong>Temperature Accuracy</strong></td>
<td>±0.5 °C</td>
</tr>
<tr>
<td><strong>Humidity Sensor</strong></td>
<td>Internal semiconductor</td>
</tr>
<tr>
<td><strong>Humidity Range</strong></td>
<td>0 %RH to 95 %RH</td>
</tr>
<tr>
<td><strong>Humidity Resolution</strong></td>
<td>0.5 %RH</td>
</tr>
<tr>
<td><strong>Humidity Accuracy</strong></td>
<td>±3.0 %RH</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>16,385/channel</td>
</tr>
<tr>
<td><strong>Sample Rate</strong></td>
<td>2 seconds up to 12 hours</td>
</tr>
<tr>
<td><strong>RH Units</strong></td>
<td>%RH, dew pt., water vapor concentration (mg/ml)</td>
</tr>
<tr>
<td><strong>Required Interface Package</strong></td>
<td>IFC102 or IFC202</td>
</tr>
<tr>
<td><strong>Baud Rate</strong></td>
<td>38,400</td>
</tr>
<tr>
<td><strong>Typical Battery Life</strong></td>
<td>1 year</td>
</tr>
<tr>
<td><strong>Operating Environment</strong></td>
<td>0 °C to +60 °C (+32 °F to +140 °F), 0 %RH to 95 %RH (non-condensing)</td>
</tr>
<tr>
<td><strong>Submergible</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Material</strong></td>
<td>Enclosure: HDPE Logger: Stainless Steel</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>2.25 in x 1.68 in dia. (57.15 mm x 42.67 mm)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>2.02 oz (60 g)</td>
</tr>
<tr>
<td><strong>Approvals</strong></td>
<td>-</td>
</tr>
</tbody>
</table>

**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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MadgeTech, Inc.
6 Warner Road • Warner, NH 03278
Phone 603.456.2011 • Fax 603.456.2012
www.madgetech.com • info@madgetech.com

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

The EggTemp-RH consists of a temperature and humidity data logger inside an egg shaped enclosure to simulate the humidity and temperature affects of a real egg.

**LEDs**

Once started, the green LED will flash every two seconds to indicate that the device is running. The red LED will flash in two 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-RH. 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 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.

**Battery Replacement**

**Materials:**
- **Replacement Battery (SR1154W)**

**Recalibration**

The EggTemp-RH standard calibration is one point at 25 °C and two points at 25 %RH and 75 %RH.

**Pricing:**
- Recalibration traceable to NIST $110.00
- Recalibration $70.00

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.