To ensure the quality of perishable goods, temperature and humidity monitoring has become essential in applications such as transportation and storage, horticulture, and heating and ventilation. The TempRetriever-RH makes safeguarding against dangerous environments simple.

The TempRetriever-RH is a low cost, reusable, temperature and humidity recorder. No external probes are required to achieve its high performance as both the humidity and temperature sensors are internal to the device. The device can record up to 16,383 readings in its non-volatile memory and coupled with up to a one year battery life, this makes for the perfect temperature and humidity recorder when keeping down costs is paramount.

The MadgeTech software includes a full host of features that allows the user to set the start method (i.e. pushbutton, delayed start or start now), start date and time, sample rate, high/low alarm limits, 6-character device ID and a 16-character extended ID. Data can be offloaded and displayed in most common temperature and humidity units. The software will also automatically calculate Mean Kinetic Temperature, dew point, water vapor concentration as well as other useful statistics to simplify analysis. For additional custom analysis, the data can be quickly exported into a MS Excel® spreadsheet with the click of a button.

**Features**
- Low cost
- User-friendly
- Push button start and stop
- LED alarm indication
- User selectable alarm limits
- Programmable start time
- Reusable
- Miniature size
- 38,400 baud offload speed
- Approved for Delta® Mainline Flights

**Applications**
- Implement HACCP programs
- Cold chain monitoring
- Verify products are stored and shipped safely
- Monitor refrigerated cars
- Medical and Pharmaceutical
- Meat aging
- Laboratory
- Research and Development
- Replace costly strip chart recorders

**Software Features:**
- Multiple graph overlay
- Statistics
- Digital calibration
- Zoom in/ zoom out
- Lethality equations (F0, PU)
- Mean Kinetic Temperature
- Full time zone support
- Data annotation
- Min./Max./Average lines
- Data table view
- Automatic report generation
- Summary view
- Multilingual
TEMPRETRIEVER-RH SPECIFICATIONS*

**Temperature**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature Sensor</td>
<td>Semiconductor</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>-40 °C to +80 °C (-40 °F to +176 °F)</td>
</tr>
<tr>
<td>Temperature Resolution</td>
<td>0.1 °C (0.18 °F)</td>
</tr>
<tr>
<td>Calibrated Accuracy</td>
<td>±0.5 °C (0 °C to +50 °C)</td>
</tr>
</tbody>
</table>

**Humidity**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humidity Sensor</td>
<td>Semiconductor</td>
</tr>
<tr>
<td>Humidity Range</td>
<td>0 %RH to 95 %RH</td>
</tr>
<tr>
<td>Humidity Resolution</td>
<td>0.1 %RH</td>
</tr>
<tr>
<td>Calibrated Accuracy</td>
<td>±3.0 %RH (±2 %RH typical at 25 °C)</td>
</tr>
<tr>
<td>Accuracy Range</td>
<td>+10 °C to +40 °C (+50 °F to +104 °F), 10 %RH to 80 %RH</td>
</tr>
<tr>
<td>Response Time</td>
<td>90% change in 60 seconds in slow moving air</td>
</tr>
<tr>
<td>Activity Indicator</td>
<td>Green LED blinks every 15 seconds to indicate device has been started.</td>
</tr>
<tr>
<td>Temperature Alarm</td>
<td>Programmable high and low limits; When logged data reaches or exceeds either limit, red LED blinks every three seconds</td>
</tr>
<tr>
<td>Memory</td>
<td>16,383 readings per channel; 32,766 total readings</td>
</tr>
</tbody>
</table>

**Reading Rates**: 1 reading every 5 seconds up to 1 reading every 30 minutes

**Start Modes**: Software programmable immediate start or delay start up to 6 months in advance; or external pushbutton

**Time Accuracy**: ±2 minute/month at 25 °C (77 °F).

**Data Format**: Date and time stamped °C, °F, K, °R; %RH, mg/ml water vapor concentration

**Calibration**: Digital calibration through software

**Calibration Date**: Automatically recorded within device

**Battery Type**: 3.6V lithium battery included, user replaceable

**Battery Life**: 1 year typical @ 25 °C, 1 minute reading rate

**Computer Interface**: PC serial or USB (interface cable required); 38,400 baud

**Software**: XP SP3/Vista/Windows 7/Windows 8

**Operating Environment**: -40 °C to +80 °C (-40 °F to +176 °F), 0 %RH to 95 %RH non-condensing

**Dimensions**: 1.4 in x 2.2 in x 0.6 in (36 mm x 56 mm x 16 mm)

**Weight**: 0.9 oz (24 g)

**Approvals**: Approved for carriage on Delta® mainline flights

**Battery Warning**: Fire, explosion, and severe burn hazard. Do not recharge, disassemble, heat above 212 °F, incinerate or expose contents to water.

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
<th>PRICE (U.S.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEMPLRETRIEVER-RH</td>
<td>Low cost, Reusable, Humidity and Temperature Recorder</td>
<td>$99.00</td>
</tr>
<tr>
<td>IFC110</td>
<td>Software, manual and RS232 interface cable</td>
<td>$99.00</td>
</tr>
<tr>
<td>IFC200</td>
<td>Software, manual and USB interface cable</td>
<td>$119.00</td>
</tr>
<tr>
<td>NIST</td>
<td>NIST Calibration Certificate</td>
<td>$90.00</td>
</tr>
<tr>
<td>LTC-7PN</td>
<td>Replacement battery for TempRetriever-RH</td>
<td>$10.00</td>
</tr>
<tr>
<td>MadgeTech 4 Secure Software License</td>
<td>License for MadgeTech Secure Software (unlimited users, 1 license per computer, more licenses are available.)</td>
<td>$1,400.00</td>
</tr>
</tbody>
</table>

For Quantity Discounts call 603-456-2011 or email sales@madgetech.com

*To order the product with the NIST certificate add -CERT to the end of the part number and add $90.00 to the price.