

Device Maintenance

Battery Replacement

Materials: Small Phillips Head Screwdriver and LTC-7PN battery

- Puncture the center of the back label with the screw driver and unscrew the enclosure.
- Remove the battery by pulling it perpendicular to the board.
- Insert the new battery into the terminals and verify it is secure.
- Screw the enclosure back together securely.

TempRetrieverRH

- Puncture the center of the back label with the screw driver and unscrew the enclosure.
- Use a small non-metallic device to push the coin-cell battery out of its holder.
- Hold down the pushbutton in the middle of the circuit board and insert the new battery into the holder.
- Release the pushbutton and watch to verify that the LED's blink. (If they do not, then you may have inserted the battery upside down. Remove the battery and try again.)
- Replace the circuit board in the enclosure.
- Screw the enclosure back together securely.

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).

Recalibration

Standard calibration for all 4 devices is one point at 25°C and two points at 25%RH and 75%RH.

Pricing:

Recalibration traceable to NIST \$90.00
 Recalibration \$70.00

Additional:

As Found Data \$15.00 per parameter/channel
 Verification Point \$15.00 per point

To send the devices back, visit www.madgetech.com, select Services then RMA Process.

Specification	RHTemp101	RHTemp110	TempRetrieverRH
Temperature Sensor	Internal semiconductor	Internal semiconductor	Internal semiconductor
Temperature Range	-40 to +80°C	-40 to +80°C	-40 to +80°C
Temperature Resolution	0.1°C	0.1°C	0.1°C
Calibrated Accuracy	±0.5°C	±0.5°C	±0.5°C
Humidity Sensor	Internal semiconductor	Internal semiconductor	Semiconductor
Humidity Range	0 to 95%RH	0 to 95%RH	0 to 95%RH
Humidity Resolution	0.5%RH	0.5%RH	0.1%RH
Calibrated Accuracy	±3.0%RH	±3.0%RH	±3.0%RH
Memory	21,845/channel	21,845/channel	16,383/channel
Sample Rate	2 seconds to 12 hours	2 seconds to 12 hours	5 seconds to 30 min.
LED Indicator	Red	Red	Red & Green
RH Units	%RH, dew pt., water vapor concentration (mg/ml)		
Alarm	Temperature	No	Temperature
Required Interface Package	IFC110 or IFC200	IFC110 or IFC200	IFC110 or IFC200
Baud Rate	2,400	57,600	38,400
Typical Battery Life	1 year	10 years	1 year
Operating Environment	-40 to +80°C, 0 to 95%RH (Non-Condensing)		
Material	ABS plastic	ABS plastic	ABS plastic
Dimensions	1.4" x 2.2" x 0.6" (36mm x 56mm x 16mm)	1.7" x 2.3" x 0.8" (44mm x 59mm x 21mm)	1.4" x 2.2" x 0.6" (36mm x 56mm x 16mm)
Approvals	CE	CE	CE

Specifications subject to change.

See MadgeTech's terms and conditions at www.madgetech.com

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RHTemp101 and RHTemp110 and TempRetrieverRH



RHTemp101

Temperature and Humidity Recorder

RHTemp110

Temperature and Humidity Recorder with 10 Year Battery Life

TempRetrieverRH

Temperature and Humidity Recorder with Pushbutton Start/Stop

Product Notes

LEDs

Once started, the LED will flash at the selected reading rate to indicate that the device is running. The 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 clean an active alarm, press **Clear Alarm**.

Installation Guide

Installing the Interface cable

- IFC200, IFC202 or IFC300
Refer to the "Quick Start Guide" included in the package.
- IFC110, IFC102 or IFC103
Plug the serial cable into the port and verify it is secure.

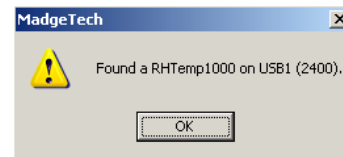
- USB-1 or USB-101
Install the USB drivers from the CD provided in the kit, then plug the USB cable into the computer and the serial cable into the serial port.

Installing the software

Insert the Software CD in the CD-ROM Drive. 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 similar to the following will appear;



- 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.

Technical Support

Visit www.madgetech.com, or call (603) 456-2011. Technical support is also available by e-mailing support@madgetech.com

Additional product information is available by e-mailing info@madgetech.com.