

TempRetrieverRH

Description	TempRetrieverRH
Temperature Sensor	Internal semiconductor
Temperature Range	-40 °C to +80 °C (-40 °F to +176 °F)
Temperature Resolution	0.1 °C (0.18 °F)
Calibrated Accuracy	±0.5 °C (±0.9 °F)
Humidity Sensor	Semiconductor
Humidity Range	0 %RH to 95 %RH
Humidity Resolution	0.1 %RH
Calibrated Accuracy	±3.0 %RH
Memory	16,383/channel
Reading Rate	1 reading every 5 seconds up to 1 reading every 30 minutes
RH Units	%RH, dew pt., water vapor concentration (mg/ml)
Alarm	Temperature
Required Interface Package	IFC200
Baud Rate	38,400
Typical Battery Life	1 year
Operating Environment	-40 °C to +80 °C (-40 °F to +176 °F), 0 %RH to 95 %RH non-condensing
Material	ABS Plastic
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)

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).

Specifications subject to change.

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



TempRetrieverRH

Temperature and Humidity Data Logger 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

To change settings for the temperature alarm:

- Select **Alarm Settings** from the device menu in the MadgeTech software. A window will open to set the high and low temperature alarms.
- Press **Change** to edit the values.
- Check **Enable Alarm Settings**. 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**.

Installation Guide

Installing the Interface cable

- IFC200

Insert the device into a USB port. The drivers will install automatically.

Installing the software

Software can also be downloaded from the MadgeTech website at the following link: www.madgetech.com/software-download. Double click the zipped download file and follow the steps to finish downloading

Device Operation

Connecting and Starting the data logger

- Once the software is installed and running, plug the interface cable into the data logger.
- Connect the USB end of the interface cable into an open USB port on the computer.
- The device will appear in the Connected Devices list, highlight the desired data logger.
- 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.)
- The status of the device will change to **"Running"**, **"Waiting to Start"** or **"Waiting to Manual Start"**, depending upon your start method.
- 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 logger to the interface cable.
- Highlight the data logger in the Connected Devices list. Click **"Stop"** on the menu bar.
- Once the data logger is stopped, with the logger highlighted, click **"Download"**. You will be prompted to name your report.
- Downloading will offload and save all the recorded data to the PC.

Device Maintenance

Battery Replacement

Materials:

[Small Phillips Head Screwdriver](#)

[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.

Recalibration

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

Additional Services:

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

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.