MADGETECH
WE BUILD DATA LOGGERS
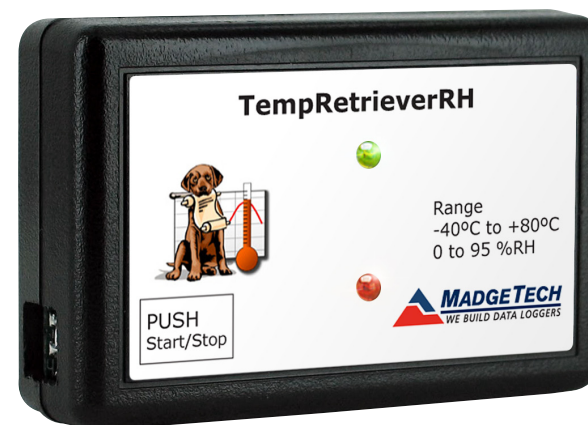
TempRetrieverRH

Description	TempRetrieverRH
Temperature Sensor	Internal semiconductor
Temperature Range	−40 °C to +80 °C (-40 °F to +176 °F)
Temperature Resolution	0.1 °C
Calibrated Accuracy	±0.5 °C
Humidity Sensor	Semiconductor
Humidity Range	0 to 95%RH
Humidity Resolution	0.1%RH
Calibrated Accuracy	±3.0%RH
Memory	16,383/channel
Sample Rate	5 seconds up to 30 minutes
RH Units	%RH, dew pt., water vapor concentration (mg/ml)
Alarm	Temperature
Required Interface Package	IFC110 or IFC200
Baud Rate	38,400
Typical Battery Life	1 year
Operating Environment	−40 °C to +80 °C (-40 °F to +176 °F), 0 to 95%RH non-condesing
Material	ABS Plastic
Dimensions	1.4" x 2.2" x 0.6" (36 mm x 56 mm x 16 mm)
Weight	0.9 oz (24 g)

TempRetrieverRH
Temperature and Humidity Data Logger with Pushbutton Start/Stop

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).

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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

- IFC110
  Plug the serial cable into the port and verify it is secure.
- IFC200
  Insert the device into a USB port. The drivers will install automatically.

Installing the software

Insert the Software USB Stick in 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.

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.