MicroRHTemp

Part Number	MicroRHTemp
Temperature Sensor	Internal semiconductor
Temperature Range	0 to +60°C
Temperature Resolution	0.1°C
Temperature Accuracy	±0.5°C
Humidity Sensor	Internal semiconductor
Humidity Range	0 to 95%RH
Humidity Resolution	0.1%RH
Humidity Accuracy	±3.0%RH
Memory	16,383/channel
Sample Rate	2 seconds up to 12 hours
LED Indicator	Red & Green
RH Units	%RH, dew pt., water vapor concentration (mg/ml)
Required Interface Package	IFC102 or IFC202
Baud Rate	38,400
Typical Battery Life	1 year
Operating Environment	0 to +60°C , 0 to 95%RH (non-condensing)
Submergible	No
Material	303 stainless steel
Dimensions	1.5" x 0.6" dia. (39mm x 16mm x dia.)
Approvals	CE

MicroRHTemp
Ultra Small, Temperature and Humidity Data Logger

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

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

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 clear an active alarm, press **Clear Alarm**.

Device Maintenance

Battery Replacement

Materials:

Replacement Battery (SR1154W)

- Unscrew the knurled endcap.
- Tip the batteries (enclosed in a plastic sleeve) out of the enclosure tube.
- Use a small, dull, non-metallic tool (e.g. pen cap) to push the batteries out of the sleeve.
- Press the new batteries into the sleeve negative (-) end first.
- Please the sleeved batteries in the enclosure tube positive (+) end first.
- Screw the knurled cap back in place.

Recalibration

The MicroRHTemp standard calibration 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 Services:

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

Prices and specifications subject to change. See MadgeTech's terms and conditions at www.madgetech.com.

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

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 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 will appear stating 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.