

# MicroRHTemp

## Miniature Humidity and Temperature Data Logger



The MicroRHTemp is a battery powered, stand alone humidity and temperature data logger that can fit in the tightest places. It is even small enough to fit into most pill bottles. It features an LED alarm indicator that alerts when user-chosen temperature or humidity limits are exceeded. This all-in-one compact, portable, easy to use device will measure and record up to 16,383 measurements per channel. The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged. Start and stop the device directly from your computer or with programmable start time and data retrieval is quick and easy. Simply plug it into an empty USB port with an interface cable (IFC202) and our user-friendly software does the rest.

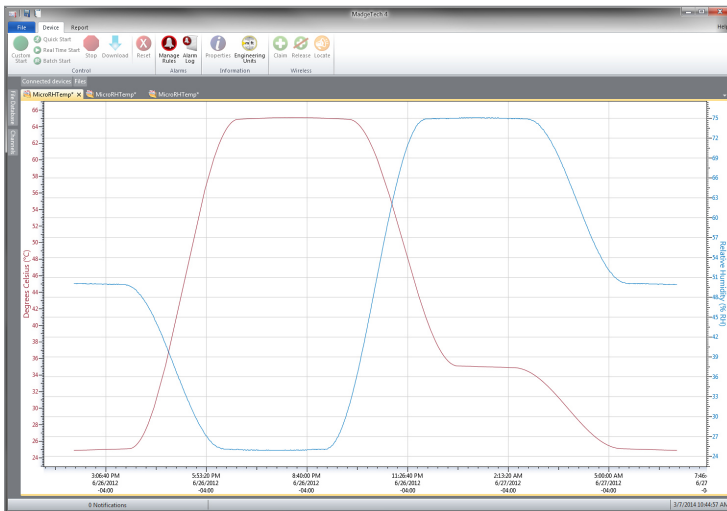
### Features

- Ultra-small package
- Configurable temperature alarm
- Programmable start time
- Real time operation
- Up to one year battery life
- Reusable
- User-friendly
- Low Cost

### Applications

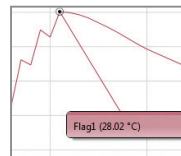
- Medical and Pharmaceutical
- Cold Chain Monitoring
- Remote data logging
- Warehouse monitoring
- HVAC
- Museum monitoring
- Environmental studies
- Shipping and storage
- Implement HACCP programs

## MadgeTech 4 Software Features

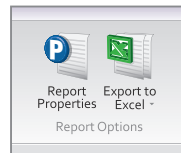


Graph View

- 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
- Summary view



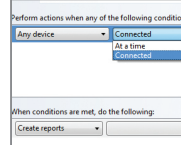
Cooling Flags



Export to Excel

| Serial | Channel     | Point Count | Minimum  | Maximum  |
|--------|-------------|-------------|----------|----------|
| 400003 | Temperature | 3000        | 65.10 °C | 24.90 °C |
| 400003 | Humidity    | 3000        | 75.1 %RH | 24.8 %RH |

Tabular Data View



Automation

## SPECIFICATIONS

Specifications are subject to change without notice. Specific warranty remedy limitations apply. Call (603) 456-2011 or go to [madgetech.com](http://madgetech.com) for details.

| TEMPERATURE            |                                    |
|------------------------|------------------------------------|
| Temperature Sensor     | Semiconductor                      |
| Temperature Range      | 0 °C to +60 °C (+32 °F to +140 °F) |
| Temperature Resolution | 0.1 °C (0.18 °F)                   |
| Calibrated Accuracy    | ± 0.5 °C (±0.9 °F)                 |

| HUMIDITY                 |  |
|--------------------------|--|
| Humidity Sensor          | Semiconductor  |
| Humidity Range           | 0 %RH to 95 %RH  |
| Humidity Resolution      | 0.1 %RH  |
| Calibrated Accuracy      | ±3.0 %RH (±2.0 %RH typical @ +25 °C)                   |
| Specified Accuracy Range | +10 °C to +40 °C (+50 °F to +104 °F), 10 %RH to 80 %RH |

| GENERAL                        |   |
|--------------------------------|---|
| Start Modes                    | Software programmable immediate start<br>Delay start up to 6 months in advance          |
| Real Time Recording            | May be used with PC to monitor and record data in real time                             |
| Memory                         | 16,383 readings per channel; 32,766 total readings                                      |
| Reading Rate                   | 1 reading every 2 seconds up to 1 reading every 12 hours                                |
| LEDs                           | 1 status and 1 alarm LED  |
| Response Time                  | 90% change in 60 seconds in slow moving air   |
| Calibration                    | Digital calibration through software  |
| Calibration Date               | Automatically recorded within device  |
| Battery Type                   | (2) 1.55V SR1154W batteries included, user replaceable                                  |
| Battery Life                   | 1 year typical at 15 minute reading rate, +25 °C (+77 °F)                               |
| Data Format                    | Date and time stamped °C, °F, K, °R; %RH, mg/ml water vapor concentration               |
| Time Accuracy                  | ±1 minute/month at +20 °C (+68 °F)  |
| Computer Interface             | USB (interface cable required); 38,400 baud   |
| Operating System Compatibility | Windows XP SP3 or later   |
| Software Compatibility         | Standard Software version 2.00.58a or later<br>Secure Software version 3.00.67 or later |
| Operating Environment          | 0 °C to +60 °C (+32 °F to +140 °F)<br>0 %RH to 95%RH non-condensing                     |
| Dimensions                     | 1.5 in x 0.6 in dia. (39 mm x 16 mm dia.)   |
| Weight                         | 1 oz (30 g)   |
| Material                       | 303 Stainless Steel   |
| Approvals                      | CE  |

**BATTERY WARNING:** DO NOT DISPOSE OF IN FIRE OR RECHARGE—MAY EXPLODE OR LEAK AND CAUSE PERSONAL INJURY.

## Ordering Information

|             |              |  |
|-------------|--------------|--|
| MicroRHTemp | PN 900362-00 | Miniature Humidity and Temperature Data Logger       |
| IFC202      | PN 900309-00 | USB interface cable                                  |
| SR1154W     | PN 901570-00 | Replacement battery for the MicroRHTemp (2 required) |