DATASHEET

# RHTemp1000-KR

MadgeTech

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MADGETECH
WE BUILD DATA LOGGERS

# RHTemp1000

## Humidity and Temperature Data Logger

The RHTemp1000 humidity and temperature logger is a rugged, battery powered, stand alone device which can be used to automatically record humidity and temperature. This all in one compact, portable, easy to use device is able to measure and record up to 32,640 humidity and temperature measurements.

The RHTemp1000 data is all time and date stamped. The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged. With the added battery life indicator feature, users can now easily identify low voltage and change batteries before usage. The device can be started and stopped directly from your computer and its small, sleek size allows it to fit almost anywhere. The RHTemp1000 makes data retrieval quick and easy. Simply insert the device into the IFC400 or the IFC406 USB docking station (sold separately) and our user-friendly software does the rest.

The MadgeTech Software is a powerful, analytic tool, available to download for free from our website **madgetech.com**. Data can be viewed in graphical or tabular formats and summary and statistics views are available for further analysis.

## Features

- Software Battery Life Indicator
- 316 Stainless Steel Enclosure
- Small, Sleek Design
- Fast Response Time
- Engraved Label
- CE Compliant
- Optional Key Ring End Cap

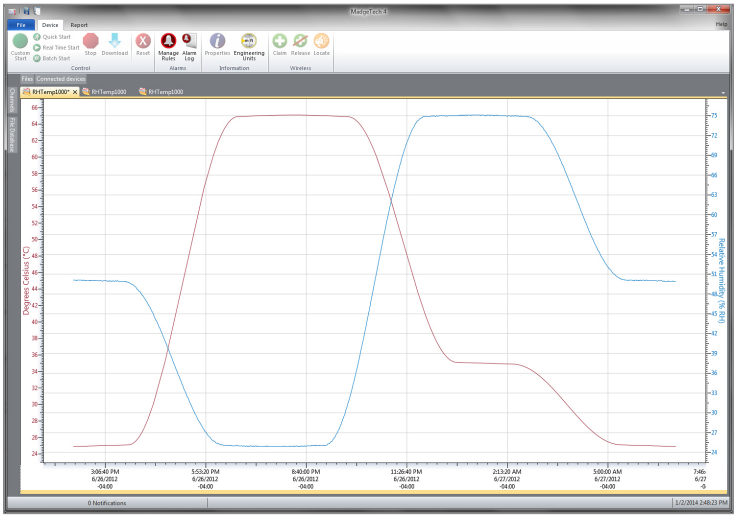
## Benefits

- Faster Downloads (1 min. full memory)
- Docking Station Communication
- Easily Identify Low Battery Voltage

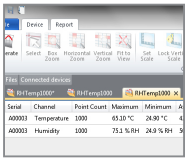
## Applications

- Implement HACCP Programs
- Environmental Studies
- Medical and Pharmaceutical

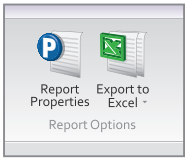
## MadgeTech 4 Software Features



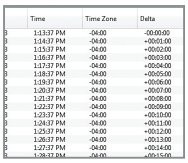
Graph View



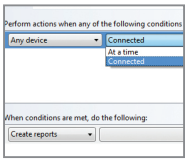
Statistics




Export to Excel



Tabular Data View



Automation

- 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

# SPECIFICATIONS

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

| TEMPERATURE | |
|---|---|
| **Temperature Sensor** | Resistance Temperature Detector (RTD) |
| **Temperature Range** | -40 °C to +80 °C (-40 °F to +176 °F) |
| **Temperature Resolution** | 0.01 °C (0.018 °F) |
| **Calibrated Accuracy** | ±0.5 °C (±0.9 °F) from 0 °C to 55 °C (32 °F to 131 °F) |
| **Temperature Response Time in Air** | $t_{63}$ - 8 minutes to 63% of change<br>$t_{90}$ - 68 minutes to 90% of change |

| HUMIDITY | |
|---|---|
| **Humidity Sensor** | Capacitive Polymer |
| **Humidity Range** | 0 %RH to 100 %RH (non-condensing) |
| **Humidity Resolution** | 0.1 %RH |
| **Calibrated Accuracy** | ±3.0 %RH |
| **Specified Accuracy Range** | 25 %RH to 75 %RH<br>+20 °C to +40 °C (68 °F to 104 °F)<br>Hysteresis Error 1 % typical, 3 % Maximum |
| **Humidity Response Time in Air** | $t_{90}$ - 2 minutes to 90% of change |

| GENERAL | |
|---|---|
| **Start Modes** | Software programmable immediate start or delay start up to 24 months in advance |
| **Real Time Recording** | May be used with PC to monitor and record data in real time |
| **Password Protection** | Yes |
| **Memory** | 32,640 readings per channel |
| **Wrap Around** | Yes |
| **Reading Rate** | 1 reading every second up to 1 reading every 24 hours |
| **Calibration** | Digital calibration through software |
| **Calibration Date** | Automatically recorded within device |
| **Battery Type** | Tadiran TL-2150/S 3.6V lithium battery included; user replaceable |
| **Battery Life** | 5 years typical at 25 °C (15 minute reading rate) |
| **Time Accuracy** | ±10 seconds/month at 25 °C (0 °C to 50 °C) |
| **Computer Interface** | IFC400 or IFC406 |
| **Operating System Compatibility** | Windows XP SP3 or later |
| **Software Compatibility** | Standard Software version 4.1.0.2 or later<br>Secure Software version 4.1.3.0 or later |
| **Operating Environment** | -40 °C to +80 °C (-40 °F to +176 °F)<br>0 %RH to 100 %RH non-condensing |
| **Dimensions** | Without Keyring: 1.67 in x 0.97 in dia. (42.3 mm x 24.6 mm dia.)<br>With Keyring: 1.98 in x 0.97 in dia. (50.3 mm x 24.6 mm dia.) |
| **Weight** | Without Keyring: 2.40 oz (68 g)<br>With Keyring: 2.22 oz (63 g) |
| **Material** | 316 Stainless Steel/Radel |
| **Approvals** | CE |

BATTERY WARNING: FIRE, EXPLOSION AND SEVERE BURN HAZARD. DO NOT RECHARGE, DISASSEMBLE, HEAT ABOVE 100 °C (212 °F), INCINERATE, CRUSH, OR EXPOSE CONTENTS TO WATER.

## Ordering Information

| | | |
|---|---|---|
| **RHTemp1000** | PN 901469-00 | Humidity and Temperature Data Logger |
| **RHTemp1000-KR** | PN 901490-00 | Humidity and Temperature Data Logger with keyring end cap |
| **IFC400** | PN 900319-00 | Docking station with USB cable |
| **IFC406** | PN 900325-00 | 6 Port, Multiplexer docking station with USB cable |
| **TL-2150/S** | PN 901745-00 | Replacement battery for the RHTemp1000 and RHTemp1000-KR |

For Quantity Discounts call (603) 456-2011 or email **sales@madgetech.com**

AKRIBIS www.akribis.info | contact@akribis.info

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