



RHTemp1000

Humidity and Temperature Data Logger



Specifications

Temperature

Temperature Sensor: Resistance Temperature Detector (RTD)
 Temperature Range: -40 °C to +80 °C (-40 °F to +176 °F)
 Temperature Resolution: 0.01 °C
 Temperature Response
 Time in Air:
 t63 - 8 minutes to 63% of change
 t90 - 68 minutes to 90% of change
 Calibrated Accuracy: ±0.5 °C (0 °C to 55 °C)

Humidity

Humidity Sensor: Capacitive Polymer
 Humidity Range: 0 %RH to 100 %RH (non-condensing)
 Humidity Resolution: 0.1 %RH
 Humidity Response
 Time in Air:
 t63 - 30 seconds to 63% of change
 t90 - 2 minutes to 90% of change
 Calibrated Accuracy: ±3.0 %RH maximum

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

Memory: 16,350 readings per channel
 Password Protection: 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
Memory Wrap: Yes

Data Format: Date and time stamped °C, °F, K, °R; %RH, mg/mL, Dew Point
Battery Life: 2 years typical at 25 °C (15 minute reading rate)
 Battery Type: 3.6V lithium battery included, user replaceable

Time Accuracy: ±1 minute/month at 25 °C
 Required Interface
 Package: IFC400 or IFC406

Computer Interface: USB (interface cable required); 125,000 baud
 Operating System Compatibility: Windows XP SP3/Vista/Windows 7/Windows 8
 MadgeTech Software Compatibility: Standard Software version 4.1.0.2 or later
 Operating Environment: -40 °C to +80 °C (-40 °F to +176 °F), 0 %RH to 100 %RH (non-condensing)

Dimensions: 1.7 in x 0.97 in x 0.97 in
 (42 mm x 24.6 mm x 24.6 mm)
 Weight: 2.3 oz (65 g)

Material: 316 Stainless Steel/PEEK
 IP Rating IP30
 Approvals: CE



The new RHTemp1000 humidity and temperature logger is a rugged, IP30, 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 16,350 humidity and temperature measurements.

The RHTemp1000 is ideal for use in harsh environments. Its real time clock ensures that all the data is 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. No more removal of end-caps to download your data!

Features

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

Benefits

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

Applications

- Implement HACCP Programs
- Environmental Studies
- Hostile Environment Monitoring
- Medical & Pharmaceutical



PTC® Metrology Calibration Lab
 Accredited by A2LA to ISO 17025
 ANSI/NCSL Z540-1



RHTemp1000

Humidity and Temperature Data Logger



The Software is a powerful, analytic tool, available to download for free from our website.

[Data Logger Software Download Version 4.2.9.0](#)

Data can be viewed in graphical or tabular formats and summary and statistics views are available for further analysis.

MADGETECH DATA LOGGER SOFTWARE

Key

- A Graph View
- B Tabular Data View
- C Statistics
- D Digital Calibration
- E Copy to Excel®

The screenshot displays the software interface with several key features highlighted by callouts A through E:

- A Graph View:** Shows a multi-line graph with temperature and humidity data over time.
- B Tabular Data View:** Shows a data table with columns for Date, Time, Time Zone, Delta, and Humidity/Temperature.
- C Statistics:** Shows a summary view with statistics like Min, Max, Average, and Standard Deviation for both Temperature and Humidity.
- D Digital Calibration:** Shows a calibration window for Temperature and Humidity sensors.
- E Copy to Excel:** Shows a menu option to export data to an Excel spreadsheet.

- 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
- Data table view
- Automatic report generation
- Summary view
- Multilingual

ORDERING INFORMATION

Data Loggers require a software support kit

1. RHTEMP1000 Humidity and Temperature Recorder with Stainless Steel enclosure
2. IFC400 Docking station with USB cable, software, and manual
3. IFC406 6 Port, Multiplexer docking station with USB cable, software and manual
4. Calibration Certificate available for data logger
5. TL-2150/S Replacement battery for RHTemp1000

RHTEMP1000 SPECIFICATIONS*

*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. SPECIFIC WARRANTY REMEDY LIMITATIONS APPLY.

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.

PTC® Instruments: www.ptc1.com Toll Free: 877.782.2329 Outside the US: 310.478.1134 info@ptc1.com

DOC-1272009-00 REV 5 2015.03.10