**MADGETECH**
WE BUILD DATA LOGGERS

## FEATURES

- ❖ Rugged
- ❖ Reusable
- ❖ Programmable start time
- ❖ Real-time operation
- ❖ Automatic dew point & vapor concentration calculations
- ❖ N.I.S.T. traceable
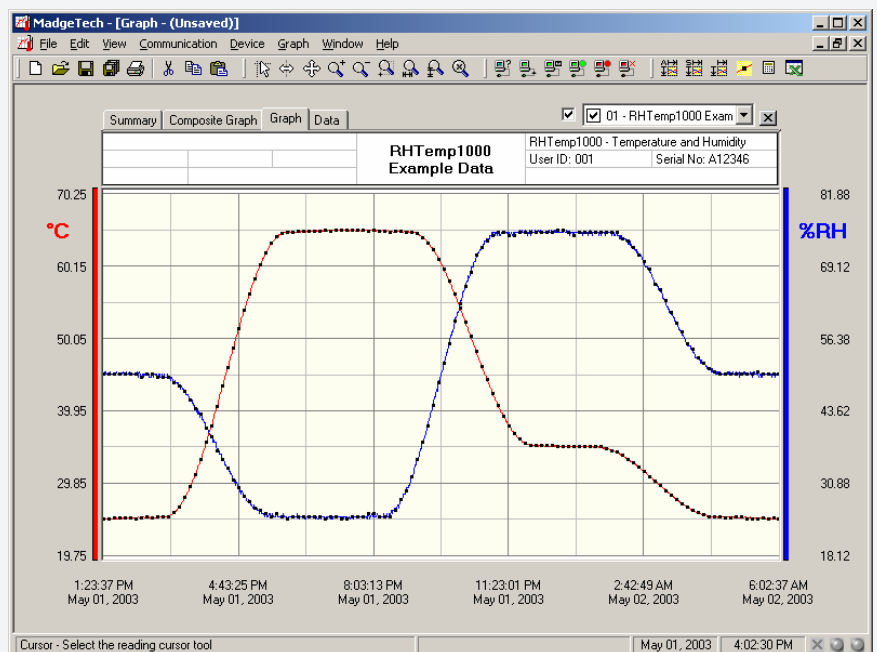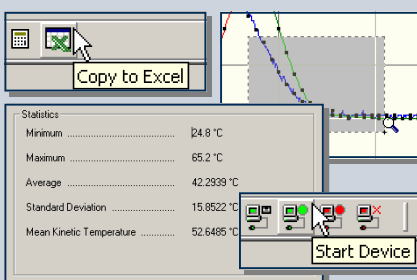- ❖ User-friendly
- ❖ Low cost

## APPLICATIONS

- ❖ Implement HACC Programs
- ❖ Autoclave Verification
- ❖ Food preperation and processing
- ❖ Environmental studies
- ❖ Warehouse Monitoring
- ❖ Hostile enviorionment monitoring
- ❖ Medical/Pharmaceutical

The RHTEMP1000 humidity and temperature logger is a rugged, water resistant, 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 21,845 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.  The device can be started and stopped directly from your computer and its small size allows it to fit almost anywhere.  The RHTEMP1000 makes data retrieval quick and easy.  Simply plug the device into an empty COM port and our user-friendly software does the rest.

## SOFTWARE

MadgeTech's Data Recorder Software is an easy to use Windows-based software package that allows the user to effortlessly collect, display and analyze data. A variety of powerful tools allow you to examine, export, and print professional looking data with just a click of the mouse.

Demo our software at www.madgetech.com

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|---|---|---|---|---|
| **Temperature Sensor:** | Semiconductor | | **Memory:** | 21,845 readings per channel |
| **Temperature Range:** | -40 ºC to +80 ºC | | **Reading Interval:** | 1 reading every 2 seconds to 1 every 12 hours |
| **Temperature Resolution:** | 0.1 ºC | | **Calibration:** | Digital Calibration through software |
| **Calibrated Accuracy:** | ±0.5 ºC (0 to +50ºC) | | **Calibration Date:** | Automatically recorded within device |
| | | | **Power**: | 3.6V lithium battery included |
| **Humidity Sensor:** | Semiconductor | | **User Replaceable Battery:** | 1 year typical at 25 ºC, 1 minute reading intervals |
| **Humidity Range:** | 0 to 100% RH | | **Data Format:** | Date and time stamped ºC, ºF, ºK, ºR ; %RH, mg/ml water vapor concentration |
| **Humidity Resolution:** | 0.5% RH | | | |
| **Calibrated Accuracy:** | ±3%RH (±2% RH typical at 25 ºC) | | **Time Accuracy:** | ±1 minute/month (at 20 ºC ) |
| **Response Time:** | 90% change in 60 seconds in slow moving air | | **Computer Interface:** | PC serial or RS232C COM (Interface cable required); 2400 baud |
| | | | **Software:** | Windows 95/98/ME/NT/2000/XP based software |
| **Specified Accuracy Range:** | 10 to 80 %RH, +10 ºC to +40 ºC | | **Operating Environment:** | -40 ºC to +80 ºC, 0 to 100 %RH |
| **Start Time:** | Software programmable Start time and date. Up to six months in advance. | | **Dimensions:** | 5.4" x 1.0" dia. (138mm x 26mm dia.) |
| | | | **Weight (Aluminum) :** | 5 oz (145 g) |
| **Real Time Recording:** | May be used with PC to monitor and record data in real time | | **Weight (Stainless) :** | 10 oz (285 g) |

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|---|---|---|---|---|
| **Multiple Graphs:** | Simultaneously analyze data from several units or deployments; easily switch to a single data series | | **Statistics:** | Calculate averages, min, max, standard deviation, and mean kinetic temperature with the touch of a button |
| **Real-Time Recording:** | Collect and display data in real-time while continuing to log | | **Export Data:** | Export data in a variety of common formats, or switch to Excel with a single click |
| **Graphical Cursor:** | One click displays readings by time, value, parameter or sample number | | **Calibration:** | Fully digital calibration function automatically stores parameters in device |
| **Data Table:** | Instantly access tabular view for detailed dates, times, values, and annotations | | **Logger Configuration:** | Easy set up and launch of data loggers with immediate or delayed start, preferred sample rate, and device ID |
| **Scaling Options:** | Autoscale function fits data to the screen, r allows user to manually enter their own values | | **Communications:** | Automatically sets up communications port, or lets user set configuration |
| **Formatting Options:** | Change colors, line styles, plotting options, show or hide channels in an instant | | **Printing:** | Automatically print graphical or tabular data |

**As part of our commitment to continuous product improvement, MadgeTech reserves the right to change product specifications without notice.

## ORDERING INFORMATION

| Model | Description |
|---|---|
| RHTEMP1000 | Rugged Humidity and Temperature Recorder |
| IFC101 | Software, manual and 9-pin computer interface cable |
| N.I.S.T. Cert | N.I.S.T. Calibration Certificate |

## ASK ABOUT OUR OTHER DATA RECORDERS

| | |
|---|---|
| **Temperature** | **pH** |
| **Humidity** | **Level** |
| **Pressure** | **Shock/Vibration** |
| **Bridge/Strain** | **Submersible** |
| **Current** | **Intrinsically Safe** |
| **Pulse/Event** | **RF Transmitters** |
| **Voltage** | **Multi-parameter** |

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