

## FEATURES

- ❖ Ultra-small package
- ❖ Extended battery life
- ❖ N.I.S.T. traceable
- ❖ Real-time operation
- ❖ Low cost
- ❖ Programmable start time
- ❖ Reusable
- ❖ User friendly

## Applications

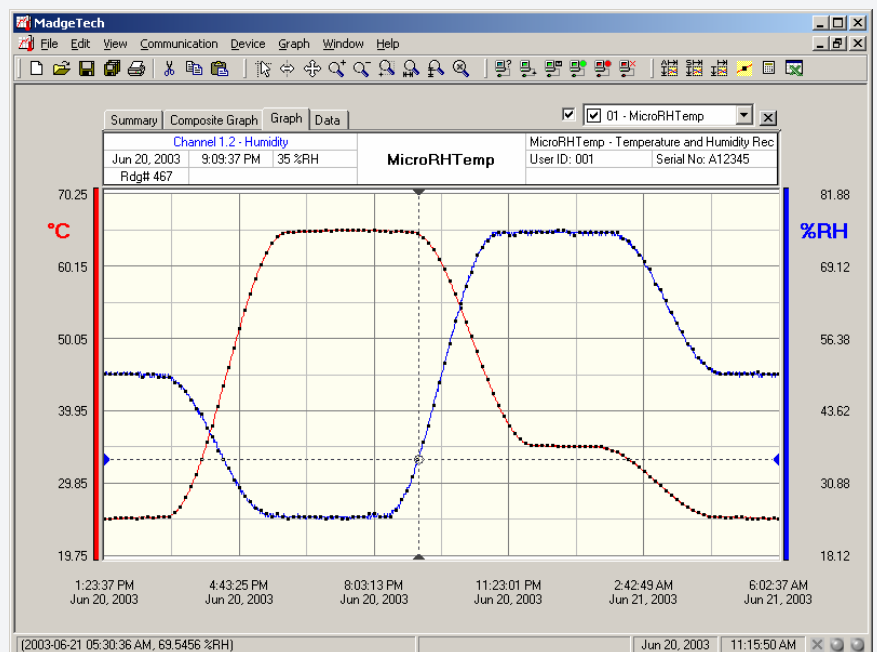
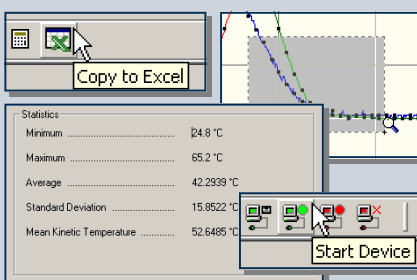
- ❖ Cold Chain monitoring
- ❖ Remote data logging
- ❖ Warehouse monitoring
- ❖ HVAC
- ❖ Medical/Pharmaceutical
- ❖ Museum Monitoring
- ❖ Environmental studies
- ❖ Replace costly strip chart recorders
- ❖ Implement HACCP programs



The MICRORHTEMP-EB is the world's smallest, battery powered, stand alone humidity and temperature recorder which offers an extended battery life of typically 10 months. This is an all-in-one compact, portable, easy to use device that will measure and record up to 21,845 measurements per channel. The MICRORHTEMP-EB is a major leap forward in both size and performance. Its real-time clock ensures that all data is time and date stamped and the non-volatile solid state memory storage medium provides maximum data security even if the battery becomes discharged. The device can be started and stopped directly from your computer and it's ultra-miniature size allows the user the ability to use the device in the smallest spaces. The MICRORHTEMP-EB makes data retrieval quick and easy. Simply plug it 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.



## MICRORHTEMP-EB SPECIFICATIONS

|   |   |
|---|---|
| <b>Temperature Sensor:</b> Semiconductor  | <b>Memory:</b> 21,845 readings per channel  |
| <b>Temperature Range:</b> -20 °C to +70 °C  | <b>Reading Interval:</b> 1 reading every 2 seconds to 1 every 12 hours                          |
| <b>Temperature Resolution:</b> 0.1 °C   | <b>Calibration:</b> Digital calibration through software  |
| <b>Calibrated Accuracy:</b> ±0.5 °C   | <b>Calibration Date:</b> Automatically recorded within device                                   |
| <b>Accuracy Range:</b> 0 to +50 °C  | <b>Power:</b> 2 - 3.0V lithium batteries included   |
| <b>Humidity Sensor:</b> Semiconductor   | <b>Battery Life:</b> 10 months typical (5 minute reading rate, 25 °C)                           |
| <b>Humidity Range:</b> 0 to 100% RH   | <b>Data Format:</b> Date and time stamped °C, °F, °K, °R ; %RH, mg/ml water vapor concentration |
| <b>Humidity Resolution:</b> 0.5% RH   | <b>Time Accuracy:</b> ±1 minute/month (at 20 °C)  |
| <b>Calibrated Accuracy:</b> ±3%RH (±2% RH typical at 25 °C)                               | <b>Alarm:</b> Programmable LED high/low temperature alarm                                       |
| <b>Response Time:</b> 90% change in 60 seconds in slow moving air                         | <b>Computer Interface:</b> PC serial or RS232C COM (Interface cable required); 2,400 baud       |
| <b>Accuracy Range:</b> 10 to 80% RH, +10°C to +40°C                                       | <b>Software:</b> Windows 95/98/ME/NT/2000/XP based software                                     |
| <b>Start Time:</b> Software programmable start time and date. Up to six months in advance | <b>Operating Environment:</b> -20 °C to +70 °C, 0 to 95 %RH non-condensing                      |
| <b>Real Time Recording:</b> May be used with PC to monitor and record data in real time   | <b>Dimensions:</b> 1.5" x 0.75" dia (39mm x 20mm dia)   |
|   | <b>Weight:</b> 1 oz (30 g)  |
|   | <b>Enclosure:</b> White delrin  |

## MICRORHTEMP-EB SOFTWARE FEATURES

|  |   |
|--|---|
| <b>Multiple Graphs:</b> Simultaneously analyze data from several units or deployments; easily switch to a single data series | <b>Statistics:</b> Calculate averages, min, max, standard deviation, and mean kinetic temperature with the touch of a button              |
| <b>Real-Time Recording:</b> Collect and display data in real-time while continuing to log                                    | <b>Export Data:</b> Export data in a variety of common formats, or switch to Excel with a single click                                    |
| <b>Graphical Cursor:</b> One click displays readings by time, value, parameter or sample number                              | <b>Calibration:</b> Fully digital calibration function automatically stores parameters in device  |
| <b>Data Table:</b> Instantly access tabular view for detailed dates, times, values, and annotations                          | <b>Logger Configuration:</b> Easy set up and launch of data loggers with immediate or delayed start, preferred sample rate, and device ID |
| <b>Scaling Options:</b> Autoscale function fits data to the screen, or allows user to manually enter their own values        | <b>Communications:</b> Automatically sets up communications port, or lets user set configuration  |
| <b>Formatting Options:</b> Change colors, line styles, plotting options, show or hide channels in an instant                 | <b>Printing:</b> 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  |
|----------------|--|
| MICRORHTEMP-EB | Miniature Humidity & Temperature Recorder - Extended Battery |
| IFC102         | 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

|                        |                           |
|------------------------|---------------------------|
| <b>Temperature</b>     | <b>Voltage</b>            |
| <b>Humidity</b>        | <b>Current</b>            |
| <b>Pressure</b>        | <b>Submersible</b>        |
| <b>pH</b>              | <b>Intrinsically Safe</b> |
| <b>Level</b>           | <b>RF Transmitters</b>    |
| <b>Shock/Vibration</b> | <b>Multi-parameter</b>    |
| <b>Pulse/Event</b>     |                           |