

MICRORHTEMP

Miniature Humidity & Temperature Recorder

FEATURES

- ❖ Ultra-small package
- ❖ N.I.S.T. traceable
- ❖ Configurable temperature alarm
- ❖ Programmable start time
- ❖ Real-time operation
- ❖ Up to one year battery life
- ❖ Reusable
- ❖ User friendly
- ❖ Low cost

Applications

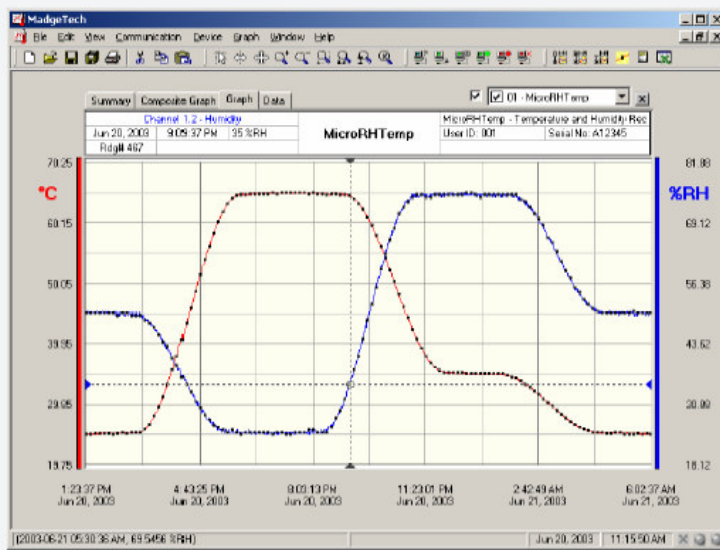
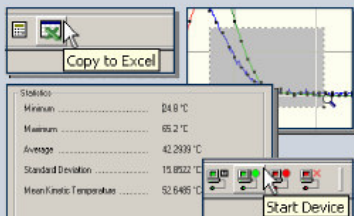
- ❖ Medical/Pharmaceutical
- ❖ Cold Chain monitoring
- ❖ Remote data logging
- ❖ Warehouse monitoring
- ❖ HVAC
- ❖ Museum Monitoring
- ❖ Environmental studies
- ❖ Replace costly strip chart recorders
- ❖ Implement HACCP programs



The MICRORHTEMP is the world's smallest, battery powered, stand alone humidity and temperature recorder. This is an all-in-one compact, portable, easy to use device that 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. 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 tightest spaces. The MICRORHTEMP 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 SPECIFICATIONS

Temperature Sensor: Semiconductor	Memory: 16,383 readings per channel
Temperature Range: 0 °C to +50 °C	Reading Interval: 1 reading every 2 seconds to 1 every 12 hours
Temperature Resolution: 0.1 °C	Time Accuracy: ±1 minute/month @ 20 °C
Calibrated Accuracy: ±0.5 °C	Data Format: Date and time stamped °C, °F, °K, °R ; %RH, mg/ml water vapor concentration
Humidity Sensor: Semiconductor	Power: 2 - 1.55V SR1154W batteries included
Humidity Range: 0 to 100% RH	Battery Life: 1 year typical (15 minute reading rate, 25 °C)
Humidity Resolution: 0.5% RH	Activity Indicator: Green LED blinks every 15 seconds to indicate device has been started
Calibrated Accuracy: ±3.0 %RH (±2.0 %RH typical @ 25°C)	Temperature Alarm: Programmable temperature alarm with high and low limits selectable in software; when logged data reaches or exceeds either limit, the red LED blinks every three seconds
Response Time: 90% change in 60 seconds in slow moving air	Computer Interface: PC serial or RS232C COM (Interface cable required) 38,400 baud
Accuracy Range: 10 to 80 %RH, +10 °C to +40 °C	Software: Windows 95/98/ME/NT/2000/XP based software
Calibration: Digital calibration through software	Operating Environment: 0 °C to +50 °C, 0 to 95 %RH non-condensing
Calibration Date: Automatically recorded within device	Dimensions: 1.5" x 0.6" dia. (39mm x 16mm dia.)
Start Time: Software programmable start time and date. Up to six months in advance	Weight: 1 oz (30 g)
Real Time Recording: May be used with PC to monitor and record data in real time	Enclosure: 303 stainless steel

SOFTWARE FEATURES

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, or 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		ASK ABOUT OUR OTHER DATA RECORDERS	
Model	Description	Temperature	Voltage
MICRORHTEMP	Miniature Humidity & Temperature Recorder	Humidity	Current
IFC102	Software, manual and 9-pin computer interface cable	Pressure	Submersible
N.I.S.T. Cert	N.I.S.T. Calibration Certificate	pH	Intrinsically Safe
		Level	RF Transmitters
		Shock/Vibration	Multi-parameter
		Pulse/Event	