

Features

- Programmable Start Time
- Configurable temperature alarm
- Real-time operation
- N.I.S.T. traceable
- CE compliant
- Reusable
- Miniature size
- User-friendly
- Low cost

Applications

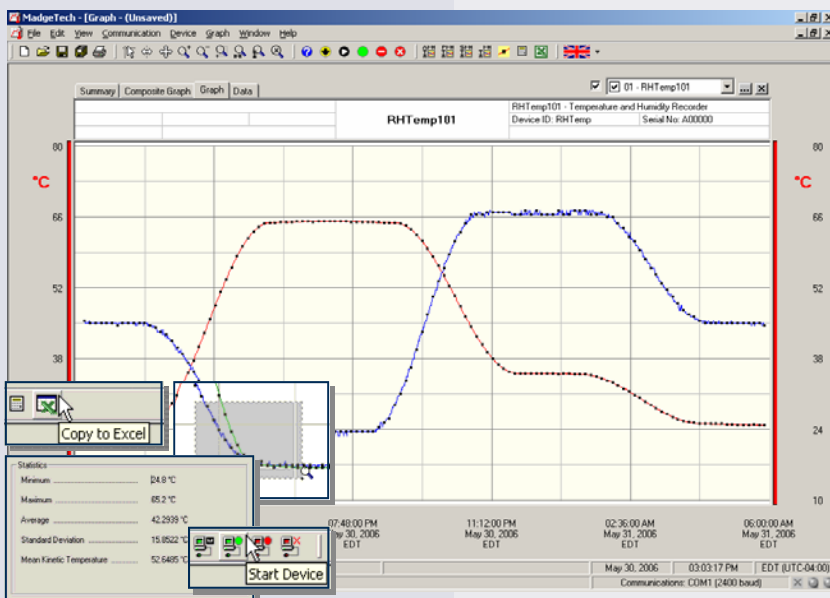
- Implement HACCP programs
- HVAC
- Warehouse monitoring
- Museum monitoring
- Medical/Pharmaceutical
- Environmental studies
- Clean room monitoring
- Replace costly strip chart recorders
- Research and development

To ensure the quality of perishable goods, temperature and humidity monitoring has become essential in applications such as transportation and storage, horticulture, heating and ventilation. With the RHTemp101, safeguarding against dangerous environments is made simple.



The RHTemp101 is a stand alone humidity and temperature recorder. No external probes are required to achieve its high performance as both the temperature and humidity sensors are internal to the device. The RHTemp101 boasts a humidity resolution of 0.5 %RH and an accuracy of ± 3.0 %RH. It can record up to 21,845 readings per channel.

With the MadgeTech user-friendly software, the data can be displayed with a variety of different configurable options. Users have the ability to view temperature data in degrees Celsius, Fahrenheit, Kelvin or Rankin. Humidity readings can be displayed in %RH, water vapor concentration or even dew point. For additional analysis, data can be easily exported to MS Excel® by simply clicking a button.



MadgeTech Data Recorder Software

displays humidity and temperature data in an easy to use graph.

The Windows®-based software package 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.

Click [MadgeTech Software](#) for more information or to download the software.

RHTEMP101 SPECIFICATIONS*

Temperature Sensor: Internal Semiconductor	Calibration: Digital calibration through software
Temperature Range: -40 to +80°C	Calibration Date: Automatically recorded within device
Temperature Resolution: 0.1°C	Power: 3.6V lithium battery included
Calibrated Accuracy: ±0.5°C (0 to +50°C)	User Replaceable Battery: 1 year typical
Humidity Sensor: Internal Semiconductor	Data Format: Date and time stamped °C, °F, K, °R ; %RH, mg/ml water vapor concentration, dew point
Humidity Range: 0 to 95%RH	Time Accuracy: ±1 minute/month (at 20°C, RS232 cable not in use)
Humidity Resolution: 0.5%RH	Computer Interface: PC serial or USB (Interface cable required); 2,400 baud
Calibrated Accuracy: ±3.0%RH (±2%RH typical at 25°C)	Software: Windows 95/98/ME/NT/2000/XP based software
Specified Accuracy Range: (+10 to +40°C; 10% to 80%RH)	Operating Environment: -40 to +80°C, 0 to 95%RH non-condensing
Start Time: Software programmable start time and date, up to six months in advance	Dimensions: 1.4" x 2.2" x 0.6" (36mm x 56mm x 16mm)
Real Time Recording: May be used with PC to monitor and record data in real time	Weight: 0.9 oz (24 g)
Memory: 21,845 readings per channel (43,690 total readings)	Material: ABS plastic
Reading Interval: 1 reading every 2 seconds to 1 every 12 hours	Approvals: CE

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

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: Automatically calculate and store calibration parameters
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 select configuration
Formatting Options: Change colors, line styles, plotting options, show or hide channels quickly	Printing: Automatically print graphical or tabular data

*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. SPECIFIC WARRANTY AND REMEDY LIMITATIONS APPLY. CALL 1-603-456-2011 OR GO TO WWW.MADGETECH.COM FOR DETAILS.

ORDERING INFORMATION

Model	Description	Price (U.S.)
RHTEMP101	Humidity and Temperature Recorder	\$199.00
IFC110	Software, manual and RS323 interface cable	\$ 99.00
IFC200	Software, manual and USB interface cable	\$119.00
NIST	N.I.S.T. Calibration Certificate	Call for Pricing
LTC-7PN	Replacement battery for RHTemp101	\$ 10.00

ASK ABOUT OUR OTHER DATA RECORDERS

Temperature	Pulse/Event/State
Humidity	Low Level Current
Pressure	Low Level Voltage
pH	RF Transmitters
Level	Intrinsically Safe
Shock	Spectral Vibration

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

