

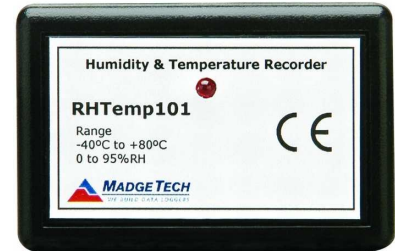
### Features

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

### Applications

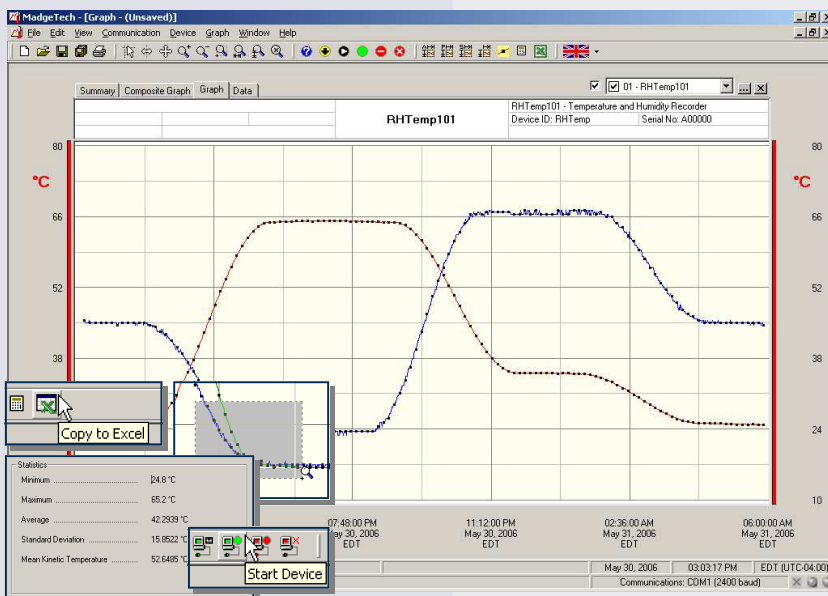
- Implement HACCP programs
- HVAC
- Warehouse monitoring
- Museum monitoring
- Medical/Pharmaceutical
- Environmental studies
- Clean room monitoring
- Replace costly strip chart recorders
- Research and development

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  $\pm 3.0$  %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.

## RHTEMP101 SPECIFICATIONS\*

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

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

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

## ORDERING INFORMATION

Model	Description	
RHTEMP101	Humidity and Temperature Recorder	
IFC110	Software, manual and RS232 interface cable	
IFC200	Software, manual and USB interface cable	
NIST	N.I.S.T. Calibration Certificate	
LTC-7PN	Replacement battery for RHTemp101	

### 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
LCD Display	

