

### Features

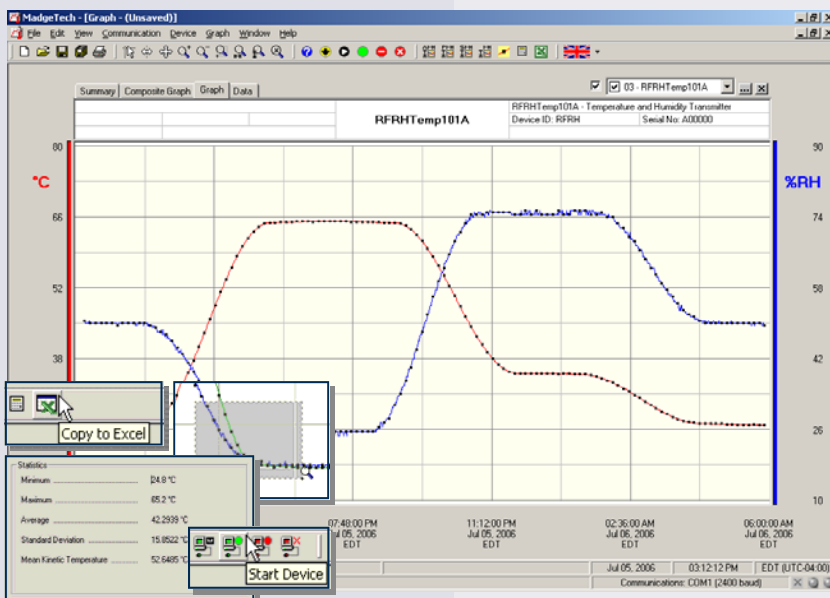
- Multiple transmitter configurations
- Memory wrap around
- Software configurable
- Real-time operation
- Programmable start time
- Miniature size
- User-friendly
- N.I.S.T. traceable

### Applications

- Remote data logging
- Warehouse monitoring
- HVAC
- Medical and Pharmaceutical
- Museum monitoring
- Environmental studies
- Replace costly strip chart recorders
- Implement HACCP programs

The RFRHTemp101A is a battery powered humidity and temperature recorder with a wireless transmitter. This is an all-in-one compact, portable, easy to use device that will measure and record up to 5,461 measurements per channel. The RFRHTemp101A combines the features from the standard product line and adds the convenience of a wireless transmitter. When enabled, the wireless transmitter will transmit readings back to the host computer where the data can be analyzed in real time. These readings are also logged to the device's memory for added data security. The convenient slide switch allows the transmitter to be turned on or off without affecting the operation of the device.

The device can be started, stopped and configured directly from your computer. Its small size allows it to fit almost anywhere. In addition to the wireless communications, the RFRHTemp101A makes data retrieval quick and easy. Simply plug the device into an empty COM port and our user-friendly software will handle the rest.



### 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.

## RFRHTEMP101A SPECIFICATIONS\*

<b>Temperature Sensor:</b> Internal Semiconductor	<b>Reading Rate:</b> 1 reading every 30 seconds to 1 every 12 hours
<b>Temperature Range:</b> -30 to +70°C	<b>Data Format:</b> Date and time stamped °C, °F, K, °R ; %RH, mg/ml water vapor concentration
<b>Temperature Resolution:</b> 0.1°C	<b>Time Accuracy:</b> ±1 minute/month (at 20 to 30°C)
<b>Calibrated Accuracy:</b> ±0.5°C (0 to +50°C)	<b>Computer Interface:</b> PC serial or RS232C COM (interface cable required); 57,600 baud
<b>Humidity Sensor:</b> Semiconductor	<b>RF Carrier Frequency:</b> 418 ± 0.075MHz
<b>Humidity Range:</b> 0 to 95% RH	<b>RF Baud Rate:</b> 4,800 baud
<b>Humidity Resolution:</b> 0.5% RH	<b>Output Power:</b> <0dBm typical (<1mW)
<b>Calibrated Accuracy:</b> ±3%RH (±2% RH typical at 25 °C)	<b>Receiver Sensitivity (RFC101A):</b> -90dBm typical
<b>Specified Accuracy Range:</b> +10 to +40°C; 10 to 80%RH	<b>Range:</b> Line-of-sight: up to 120 ft., Urban: up to 40 ft.
<b>Response Time:</b> 90% change in 60 seconds in slow moving air	<b>Approvals:</b> US (FCC), CA (IC)
<b>Calibration:</b> Digital calibration through software	<b>Battery Type:</b> 3.6V lithium battery included; <b>user replaceable</b>
<b>Start Modes:</b> Software programmable immediate start or delay start up to six months in advance	<b>Battery Life:</b> 1 year typical (1 min reading rate @ 25 °C)
<b>Real Time Recording:</b> May be used with PC to monitor and record data in real time	<b>Software:</b> XP SP3/Vista/Windows 7
<b>Memory:</b> 5,461 readings per channel; 10,922 total readings; software configurable memory wrap	<b>Operating Environment:</b> -30 to +70°C, 0 to 95 %RH non-condensing
	<b>Dimensions:</b> 1.7" x 2.3" x 0.8" + 2.0" antenna (42mm x 59mm x 21mm + 51mm antenna)
	<b>Weight:</b> 2 oz (60 g)
	<b>Materials:</b> ABS plastic

**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>Graphical Cursor:</b> One click displays readings by time, value, parameter or sample number	<b>Export Data:</b> Export data in a variety of common formats, or switch to Excel® with a single click
<b>Data Table:</b> Instantly access tabular view for detailed dates, times, values, and annotations	<b>Calibration:</b> Automatically calculate and store calibration parameters
<b>Scaling Options:</b> Autoscale function fits data to the screen, or allows user to manually enter their own values	<b>Logger Configuration:</b> Easy set up and launch of data loggers with immediate or delayed start, preferred sample rate, and device ID
<b>Formatting Options:</b> Change colors, line styles, plotting options, show or hide channels quickly	<b>Communications:</b> Automatically sets up communications port, or lets user select configuration

\*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

<u>Model</u>	<u>Description</u>	<u>Price (U.S.)</u>
RFRHTEMP101A	Humidity and Temperature Recorder and Wireless Transmitter	\$269.00
RFC101A	Software, manual, wireless receiver, power supply and RS232 interface cable	\$199.00
RFC200A	Software, manual, wireless receiver, power supply and USB interface cable	\$249.00
NIST	N.I.S.T. Calibration Certificate	Call for Pricing
LTC-7PN	Replacement battery for RFRHTemp101A	\$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
LCD Display	

For Quantity Discounts call 603-456-2011 or email [sales@madgetech.com](mailto:sales@madgetech.com)



DOC-1081009-00 REV E 2010.06.28