



RFRHTEMP101A

HUMIDITY & TEMPERATURE DATA LOGGER & WIRELESS TRANSMITTER

Features

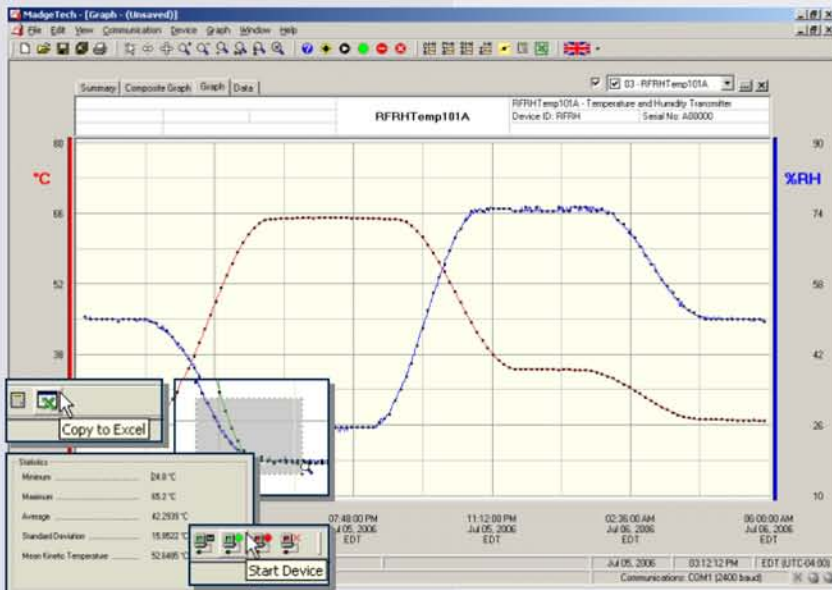
- Multiple transmitter configurations
- Memory wrap around
- Software configurable
- Real-time operation
- Programmable start time
- Miniature size
- User-friendly
- N.I.S.T. traceable

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.



DATA LOGGER 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.

RFRHTEMP101A SPECIFICATIONS*

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

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

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

ORDERING INFORMATION

<u>Model</u>	<u>Description</u>
RFRHTEMP101A	Humidity and Temperature Recorder and Wireless Transmitter
RFC101A	Software, manual, wireless receiver, power supply and RS232 interface cable
RFC200A	Software, manual, wireless receiver, power supply and USB interface cable
NIST	N.I.S.T. Calibration Certificate

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	

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