



RFRHTEMP101A Humidity/Temperature Recorder and Wireless Transmitter

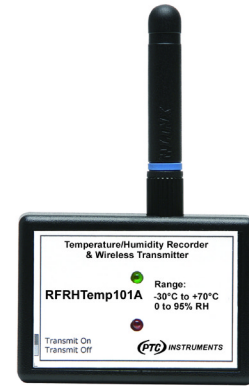
FEATURES

- ❖ 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/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

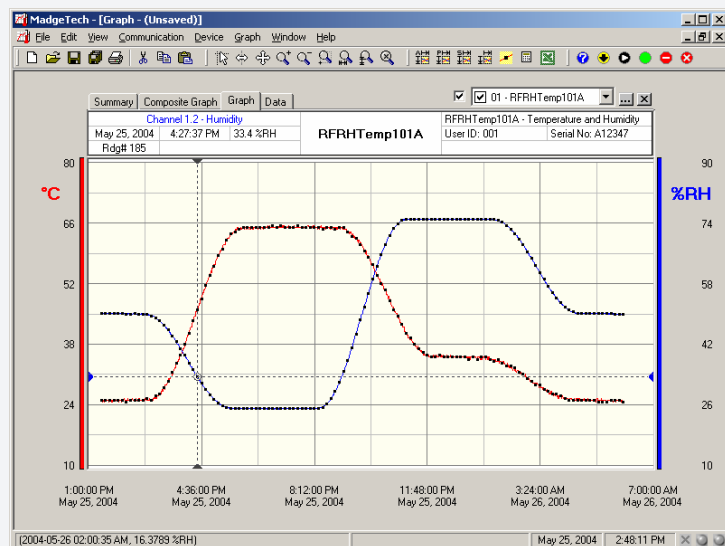
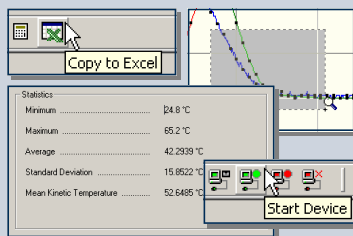


wireless transmitter will transmit readings back to the host computer where the data can be analyzed in real time. These readings are also logged to the device's memory for added data security. The convenient slide switch allows the transmitter to be turned on or off without affecting the operation of 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.

SOFTWARE

PTC'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.



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RFRHTEMP101A SPECIFICATIONS

Temperature Sensor: Semiconductor	Memory: 5,461 readings per channel
Temperature Range: -30 °C to +70 °C	Reading Interval: 1 reading every 30 seconds to 1 every 12 hours
Temperature Resolution: 0.1 °C	Data Format: Date and time stamped °C, °F, °K, °R ; %RH, mg/ml water vapor concentration
Calibrated Accuracy: ±0.5 °C (0 to +50°C)	Time Accuracy: ±1 minute/month (at 20 °C to 30 °C)
Humidity Sensor: Semiconductor	Computer Interface: PC serial or RS232C COM (Interface cable required); 57,600 baud
Humidity Range: 0 to 100% RH	RF Baud Rate: 4,800 baud
Humidity Resolution: 0.5% RH	RF Carrier Frequency: 418 MHz
Calibrated Accuracy: ±3%RH (±2% RH typical at 25 °C)	Range: Line-of-sight: up to 120 ft
Response Time: 90% change in 60 seconds in slow moving air	Approvals: US (FCC), CA (IC)
Calibration: Digital calibration through software	Power: 3.6V lithium battery included (LTC-7PN)
Start Time: Software programmable start time and date. 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: Windows 95/98/ME/NT/2000/XP based software
	Operating Environment: -30 °C to +70 °C, 0 to 95 %RH non-condensing
	Dimensions: 0.8" x 1.7" x 2.7" (20 mm x 42 mm x 68 mm)
	Weight: 2 oz (60 g)
	Enclosure: ABS plastic

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

ORDERING INFORMATION

Model	Description
RFRHTEMP101A	Humidity / Temperature Recorder and Wireless Transmitter
RFC101A	Wireless Receiver
SP100	Software, manual and 9-pin computer interface cable
Contact PTC®	N.I.S.T. Calibration Certificates

ASK ABOUT OUR OTHER DATA RECORDERS

Temperature	Voltage
Humidity	Current
Pressure	Submersible
pH	Intrinsically Safe
Level	RF Transmitters
Shock/Vibration	Multi-parameter
Pulse/Event	

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