

# THERM•A•LERT-RH

## WIRELESS HUMIDITY AND TEMPERATURE MONITORING AND ALARMING SYSTEM



### Features

- Wireless Two-Way Communication
- Precision RTD Sensing Element
- View Data in Real-Time
- 2 Year Battery Life
- Battery Life Indicator
- N.I.S.T. Traceable
- Field Upgradeable

### Benefits

- Fast Installation
- Minimal Long-Term Maintenance
- Full Communication From One PC

### Applications

- Calibration chamber monitoring
- Laboratory monitoring
- Hospitals
- Blood Banks
- Ware Houses
- Museums

The MadgeTech Therm•A•lert-RH is a humidity and temperature monitoring and alarming system, designed specifically for laboratories, warehouses, and other environments where humidity monitoring is critical. The system can be used to monitor a single location or expanded to include hundreds of locations by adding additional transmitters.

Therm•A•lert-RH provides real time notification of humidity and temperature deviations, and features a user programmable alarm that can be configured to send a message via text message, screen alarm and/or e-mail if an alarm condition occurs.

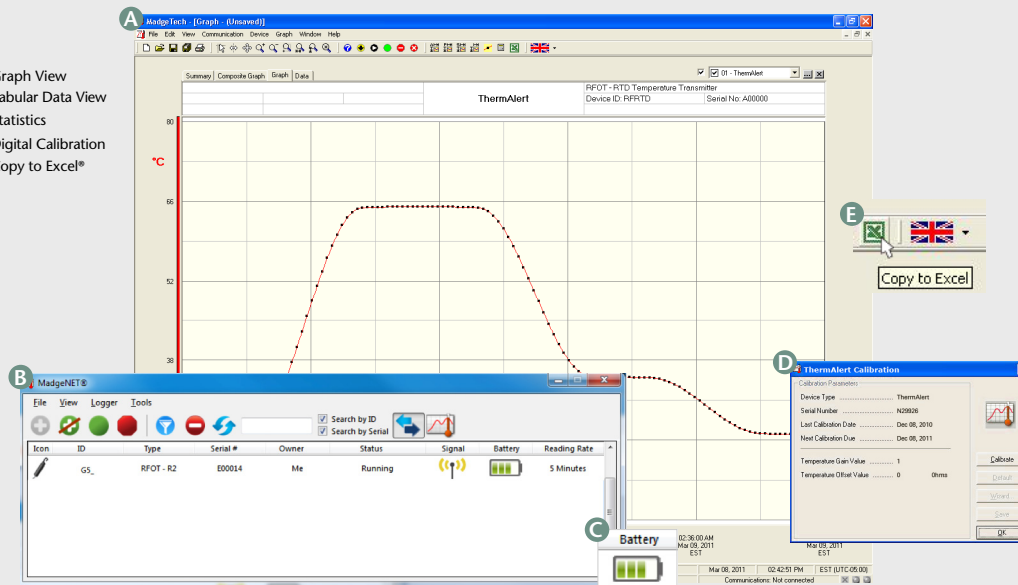
The Therm•A•lert-RH system is equipped with wireless two-way communication. Full communication can be performed directly from a central PC, including starting, stopping and downloading. In addition to wirelessly transmitting data, Therm•A•lert-RH also stores each reading to internal memory for back-up. This back-up data may be retrieved wirelessly at a later time. Customers can setup automatic archiving preferences, ensuring all data is saved and retained to comply with federal regulations.



## MADGETECH DATA LOGGER SOFTWARE

### Key

- A Graph View
- B Tabular Data View
- C Statistics
- D Digital Calibration
- E Copy to Excel®



### Software Features:

- Multiple graph overlay
- Statistics
- Digital calibration
- Zoom in/ zoom out
- Lethality equations (F<sub>0</sub>, PU)
- Mean Kinetic Temperature
- Full time zone support
- Data annotation
- Min./Max./Average lines
- Data table view
- Automatic report generation
- Summary view
- Multilingual

# THERM•A•LERT-RH SPECIFICATIONS\*

## Temperature\*\*

<b>Temperature Sensor:</b>	Semiconductor
<b>Temperature Range:</b>	-20°C to +80°C ( -4°F to +176°F)
<b>Temperature Resolution:</b>	0.1°C (0.18°F)
<b>Temperature Calibrated Accuracy:</b>	±0.5°C/±0.9°F (0°C to +50°C/32°F to 122°F)

## Humidity

<b>Humidity Sensor:</b>	Semiconductor
<b>Humidity Range:</b>	0%RH to 95%RH
<b>Humidity Resolution:</b>	0.1%RH
<b>Humidity Calibrated Accuracy:</b>	±3.0%RH (±2%RH typical at 25°C/77°F)

## Wireless

<b>RF Frequency:</b>	2.45GHz IEEE 802.15.4 ultra-low power MadgeNET wireless transceiver with fully bi-directional communication
<b>Band:</b>	ISM band 2.405-2.48 GHz
<b>Output Power:</b>	+0dBm typical
<b>Receiver Sensitivity (RFC1000):</b>	-95dBm typical
<b>Range:</b>	Line-of-sight 400', indoors 150'

\*\*Temperature specifications based on ideal 100 Ω Pt RTD compliant with IEC 751 (1983) and ITS -90, 5000Ω.

## General

<b>Reading Rate:</b>	One reading every two seconds to one every 24 hours
<b>Memory:</b>	15,000 readings per channel; software configurable memory wrap
<b>Wrap Around:</b>	Yes
<b>Start Modes:</b>	<ul style="list-style-type: none"> <li>• Immediate start</li> <li>• Delay start up to 18 months</li> </ul>
<b>Calibration:</b>	Digital calibration through software
<b>Calibration Date:</b>	Automatically recorded within device
<b>Battery Type:</b>	3.6V lithium battery included; <b>user replaceable</b>
<b>Battery Life:</b>	2 years typical
<b>Data Format:</b>	Date and time stamped °C, °F, K, °R
<b>Time Accuracy:</b>	±1 minute / month (at 25°C/77°F)
<b>Computer Interface:</b>	RFC1000 required; 115,200 baud (IFC200 in use)
<b>Software:</b>	XP SP3/Vista/Windows 7
<b>Operating Environment:</b>	-20°C to +80°C (-4°F to 176°F), 0%RH to 95%RH non-condensing
<b>Dimensions:</b>	2.2" x 5.0" x 1.3" (55mm x 127mm x 33mm)
<b>Enclosure Material:</b>	ABS Plastic
<b>Approvals:</b>	CE

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

**BATTERY WARNING:** Do not recharge, disassemble, heat above 125°C (257°F), incinerate or expose contents to water. Vent, rupture or explosion may result and cause severe burns.

## ORDERING INFORMATION

MODEL	DESCRIPTION
<b>THERM•A•LERT-RH</b>	Humidity and temperature data logger with wireless transmitter
<b>RFC1000</b>	Wireless RF Receiver for use with MadgeNET. USB to mini USB adapter included to connect to PC.
<b>RFC1000-REPEATER</b>	Wireless RF Receiver for use with MadgeNET. USB to mini USB adapter and power supply included.
<b>TLH-5903</b>	Replacement battery for Therm•A•lert-RH

ASK ABOUT  
OUR OTHER  
DATA  
LOGGERS

- Temperature
- Humidity
- Pressure
- pH
- Level
- Shock
- LCD Display
- Pulse/Event/State
- Current
- Voltage
- Wireless
- Intrinsically Safe
- Spectral Vibration
- Motion

For quantity discounts call 1300 737 871 or email [customer-service@instrumentchoice.com.au](mailto:customer-service@instrumentchoice.com.au)

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