

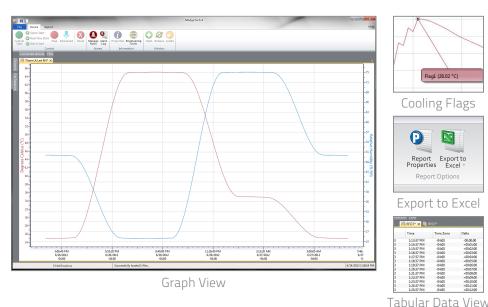
ThermAlert-RH Wireless Humidity and Temperature Data Logger

The ThermAlert-RH is a humidity and temperature monitoring and alarming system, designed specifically for laboratories, warehouses and other environments where temperature and humidity monitoring is critical. The system can be used to monitor a single location, or expanded to monitor hundreds of locations over a broad area (additional MadgeTech wireless loggers and transceivers may be required).

The ThermAlert-RH provides real time wireless, or wired, notification of humidity and temperature. The data logger features user programmable alarms that can be configured to send a message via text message (standard SMS rates apply), on-screen alarm and/or via e-mail if an alarm condition is met.

The ThermAlert-RH device is equipped with two-way wireless communication. MadgeTech wireless systems offer a flexible and robust integration for many applications. One PC can provide control and communication to all the wireless loggers within range, or the system can be divided into smaller subnets (using a different RF channel). In addition to the data being transmitted wirelessly, the ThermAlert-RH also stores each reading to non-volatile internal memory for a secure backup. Customers can also set up automatic archiving preferences, ensuring all data is saved and retained to comply with federal regulations.

MadgeTech 4 Software Features



• Multiple graph overlay

- Statistics
- Digital calibration
- Zoom in/zoom out
- Lethality equations (F0, PU)
- Mean Kinetic Temperature
- Full time zone support
- Data annotation
- Min./Max./Average lines
- Summary view



Features

- Wireless Two-Way Communication
- Precision RTD Sensing Element
- View Data in Real-Time
- 2 Year Battery Life
- Battery Life Indicator
- Field Upgradeable

Benefits

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

Applications

- Calibration Chamber Monitoring
- Laboratory Monitoring
- Hospitals
- Blood Banks
- Warehouses
- Museums



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SPECIFICATIONS

Specifications are subject to change without notice. Specific warranty remedy limitations apply. Call (603) 456-2011 or go to madgetech.com for details.

| TEMPERATURE* | |
|---------------------|-------------------------------------------------------|
| Temperature Range | -20 °C to +80 °C (-4 °F to +176 °F) |
| Resolution | 0.01 °C (0.018 °F) |
| Calibrated Accuracy | ±0.50 °C/± 0.9 °F (0 °C to +55 °C/32 °F to 131 °F) |

| HUMIDITY | |
|---------------------|---------------------------------------------|
| Humidity Range | 0 %RH to 95 %RH non-condensing |
| Resolution | 0.1 %RH |
| Calibrated Accuracy | ±3.0 %RH (±2 %RH typical at 25 °C/77 °F) |

| WIRELESS | |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RF Frequency | 2.45 GHz IEEE 802.15.4 ultra-low power wireless transceiver with fully bi-directional communication |
| Band | ISM band 2.405-2.48 GHz |
| Maximum Output Power | +0 dBm typical |
| Receiver Sensitivity (RFC1000) | -95 dBm typical |
| Transmission Distance (to data loggers) | RFC1000, RFC1000-CE & RFC1000-IP69K 2,000 ft max. outdoors - line of sight unobstructed 500 ft max. indoors - typical urban environment |
| Transmission Distance (to other RFC1000's) | RFC1000 4,000 ft max. outdoors - line of sight unobstructed 1,000 ft max. indoors - typical urban environment RFC1000-CE 2,500 ft max. outdoors - line of sight unobstructed 700 ft max. indoors - typical urban environment RFC1000-IP69K 4,000 ft max. outdoors - line of sight unobstructed 1,000 ft max. indoors - typical urban environment |

| CENEDAL | |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------|
| GENERAL | |
| Reading Rate | 1 reading every second up to 1 reading every 24 hours |
| Memory | 15,000 readings; software configurable memory wrap |
| Wrap Around | Yes |
| Start Modes | Immediate and delay start up to 18 months |
| Calibration | Digital calibration through software |
| Calibration Date | Automatically recorded within device |
| Battery Type | 3.6 V lithium battery included; user replaceable |
| Battery Life | 2 years typical |
| Data Format | Date and time stamped °C, K, °F or °R |
| Time Accuracy | ± 1 minute/month (at 25 °C) |
| Computer Interface | USB to mini USB, 250,000 baud for standalone operation or RFC1000 required for wireless operation |
| Operating System Compatibility | Windows XP SP3 or later |
| Software Compatibility | Standard Software version 2.03.06 or later Secure Software version 4.1.3.0 or later |
| Operating Environment | -20 °C to +80 °C (-4 °F to +176 °F) 0 %RH to 95 %RH non-condensing |
| Dimensions | 2.2 in x 5.25 in x 1.3 in (55 mm x 133 mm x 33 mm) |
| Weight | 3.7 oz (101 g) |
| Material | ABS Plastic |
| Approvals | US (FCC), CA (IC), CE |
| Alarm | Programmable high and low limits for temperature. Alarm is activated when temperature reaches or exceeds set limits. |

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

BATTERY WARNING: DO NOT RECHARGE, DISASSEMBLE, HEAT ABOVE 100 °C (212 °F), INCINERATE OR EXPOSE CONTENTS TO WATER. VENT, RUPTURE OR EXPLOSION MAY RESULT AND CAUSE SEVERE BURNS.

Ordering Information

| ThermAlert-RH | PN 901718-00 | Wireless Humidity and Temperature data logger |
|------------------------|--------------|-----------------------------------------------------------------------------------------------------------|
| RFC1000 | PN 901383-00 | Wireless RF receiver/repeater. USB to mini USB adapter & power supply included |
| RFC1000-CE | PN 901338-00 | Wireless RF transceiver/repeater, CE approved for Europe. USB to mini USB adapter & power supply included |
| RFC1000-IP69K | PN 901389-00 | Wireless RF transceiver/repeater, splash proof with an IP69K rating. USB to mini USB adapter included |
| RFC1000 Cloud Relay | PN 901900-00 | MadgeTech Cloud Services Data Logging Hub |
| RFC1000-CE Cloud Relay | PN 901901-00 | MadgeTech Cloud Services Data Logging Hub, CE approved for Europe |
| TL-5104 | PN 901746-00 | Replacement battery for ThermAlert-RH |

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

Countries approved for use, purchase and distribution of the ThermAlert-RH: Australia, Austria, Belgium, Bulgaria, Canada, Chile, Columbia, Croatia, Cyprus, Czech Republic, Denmark, Ecuador, Estonia, Finland, France, Germany, Greece, Honduras, Hungary, Iceland, Ireland, Israel, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Mexico, New Zealand, Norway, Peru, Poland, Portugal, Romania, Saudi Arabia, Singapore, Slovakia, Slovenia, South Africa, Spain, Sweden, Switzerland, Thailand, The Netherlands, Turkey, United Kingdom, United States, Venezuela, Vietnam

