THERM•A•LERT-RH
WIRELESS HUMIDITY AND TEMPERATURE MONITORING AND ALARMING SYSTEM

Logicbus

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

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

Applications
- Calibration chamber monitoring
- Laboratory monitoring
- Hospitals
- Blood Banks
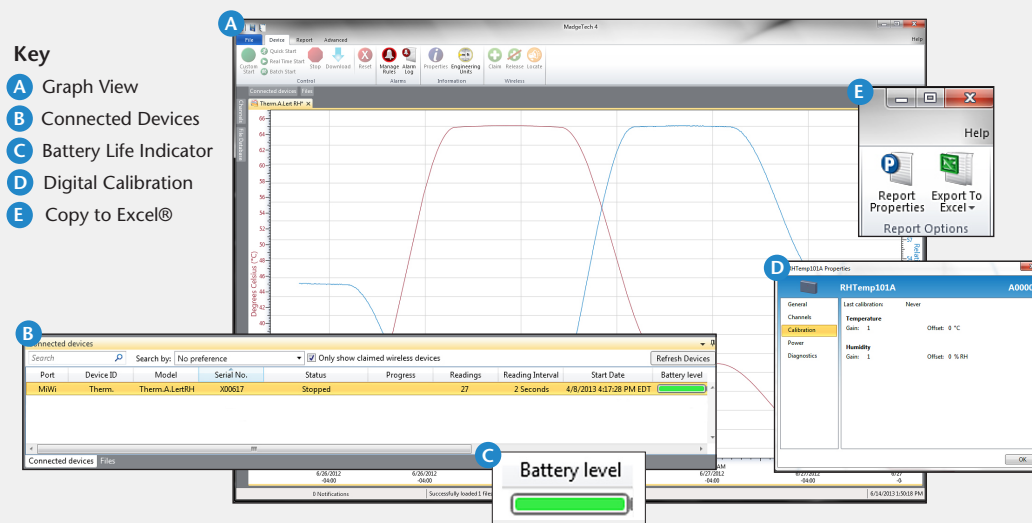- Warehouses
- Museums

The Therm•A•Lert is a temperature monitoring and alarming system, designed specifically for laboratories, warehouses and other environments where temperature 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 wireless loggers and transceivers may be required).

The Therm•A•Lert provides real time wireless, or wired, notification of 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 Therm•A•Lert device is equipped with two-way wireless communication. 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 Therm•A•Lert 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.

DATA LOGGER SOFTWARE

Key
- **A** Graph View
- **B** Connected Devices
- **C** Battery Life Indicator
- **D** Digital Calibration
- **E** Copy to Excel®

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
- Data table view
- Automatic report generation
- Summary view
- Multilingual

PLCs   Acquisition   Instruments   Data logger   Power   HMIs   Switches   Motion   Sensors   Converters   Keyboards   SCADA   Telemetry

THERM•A•LERT-RH SPECIFICATIONS*

Temperature**

Temperature Range:	-20°C to +80°C (-4°F to +176°F)
Resolution:	0.01°C (0.018°F)
Calibrated Accuracy:	±0.5°C/±0.9°F (0°C to +50°C/32°F to 122°F)

Humidity

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

Wireless

RF Frequency:	2.45GHz 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:	+0dBm typical
Receiver Sensitivity (RFC1000):	-95dBm typical
Range:	2000' max. outdoors (line of sight unobstructed) 500' max. indoors (typical urban)

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

General

Reading Rate:	One reading every two seconds to one every 24 hours
Memory:	15,000 readings; software configurable memory wrap
Wrap Around:	Yes
Start Modes:	• Immediate start • Delay start up to 18 months
Calibration:	Digital calibration through software
Calibration Date:	Automatically recorded within device
Battery Type:	3.6V lithium battery included; **user replaceable**
Battery Life:	2 years typical
Data Format:	Date and time stamped °C, °F, K, °R
Time Accuracy:	±1 minute / month (at 25°C/77°F)
Computer Interface:	RFC1000 required
Software:	XP SP3/Vista/Windows 7/Windows 8
Operating Environment:	-20°C to +80°C (-4°F to +176°F), 0%RH to 95%RH non-condensing
Dimensions:	2.2" x 5.25" x 1.3" (55mm x 133mm x 33mm)
Enclosure Material:	ABS Plastic
Approvals:	CE

ORDERING INFORMATION

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.

MODEL	DESCRIPTION
THERM•A•LERT-RH	Humidity and temperature data logger with wireless transceiver
RFC1000	Wireless RF receiver/repeater for use with Therm•A•Lert-RH. USB to mini USB adapter and power supply included.
RFC1000-IP69K	Splash Proof Wireless Transceiver. USB to mini USB adapter and power supply included.
RFC1000-CE	CE approved wireless RF receiver/repeater for use with Therm•A•Lert-RH. USB to mini USB adapter and power supply included.
*NIST	NIST Calibration Certificate
TLH-5903	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

*To order the product with the NIST certificate add -CERT to the end of the part number.

PLCs Acquisition Instruments Data logger Power HMIs Switches Motion Sensors Converters Keyboards SCADA Telemetry