

ThermAlert-P

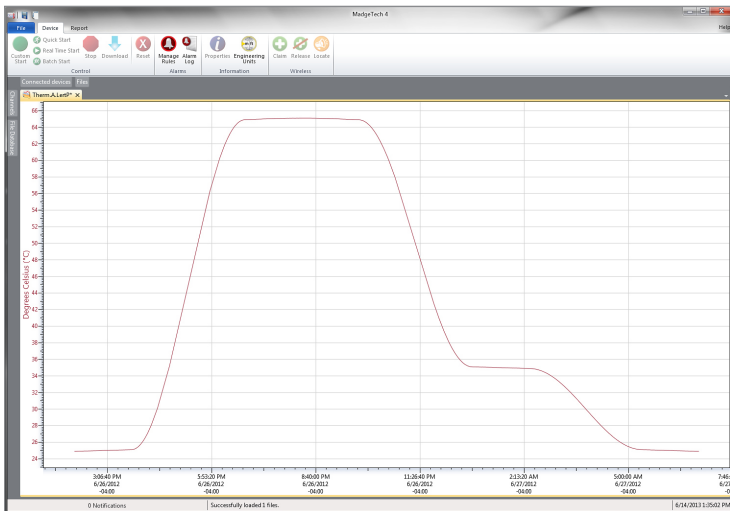
Wireless Temperature Data Logger

The ThermAlert 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 MadgeTech wireless loggers and transceivers may be required).

The ThermAlert 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, on-screen alarm and/or via e-mail if an alarm condition is met.

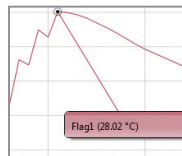
The ThermAlert device is equipped with two-way wireless communication. MadgeTech wireless systems offer a flexible and robust integration for many applications. One PC can provide control and communication to all the wireless loggers within range, or the system can be divided into smaller subnets (using a different RF channel). In addition to the data being transmitted wirelessly, the ThermAlert 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



Graph View

- 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



Cooling Flags

This screenshot shows the 'Report Options' dialog box in the software. It contains two main buttons: 'Report Properties' and 'Export to Excel'. The 'Export to Excel' button is highlighted with a green checkmark icon.

Export to Excel

This screenshot shows a 'tabular data view' of the temperature data. It displays a table with three columns: 'Time', 'Time Zone', and 'Delta'. The data rows show temperature readings at various times, with some values in red, indicating they are outside the setpoint range.

Time	Time Zone	Delta
1:13:37 PM	-0400	-0000.00
1:14:37 PM	-0400	+0000.00
1:15:37 PM	-0400	+000200
1:16:37 PM	-0400	+000500
1:17:37 PM	-0400	+000400
1:18:37 PM	-0400	+000500
1:19:37 PM	-0400	+000600
1:20:37 PM	-0400	+000700
1:21:37 PM	-0400	+000800
1:22:37 PM	-0400	+000900
1:23:37 PM	-0400	+001000
1:24:37 PM	-0400	+001100
1:25:37 PM	-0400	+001200

Tabular Data View

This screenshot shows the 'Automation' settings in the software. It includes a dropdown menu for 'Perform actions when any of the following conditions' with 'Any device' selected. Below it, there are checkboxes for 'Connected' and 'At a time'. Another dropdown menu for 'When conditions are met, do the following:' has 'Create reports' selected.

Automation



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

- Refrigerator/Freezer Monitoring
- Calibration Chamber Monitoring
- Laboratory Monitoring
- Hospitals
- Blood Banks
- HVAC



Ethylene glycol bottle (optional)

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*	
Probe Temperature Range	-200 °C to +260 °C (-328 °F to +500 °F)
Lead Wire Range	-200 °C to +200 °C (-328 °F to +392 °F)
Glycol Bottle (optional) Range	-50 °C to +80 °C (-58 °F to +176 °F)
Resolution	0.01 °C (0.018 °F)
Probe Calibrated Accuracy	±0.1 °C/±0.18 °F (-20 °C to +80 °C/-4 °F to +176 °F) ±0.5 °C/±0.9 °F (outside of specified range)

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

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

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.

GENERAL	
Reading Rate	1 reading every second up to 1 reading every 24 hours
Memory	30,000 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	Data Logger: 2.2 in x 5.0 in x 1.3 in (55 mm x 127 mm x 33 mm) Wire: 9 ft Probe: 3/16 in dia x 4.5 in Glycol bottle: 30 ml: 2.5 in x 1.5 in x 1.5 in (63 mm x 38 mm x 38 mm) 60 ml: 3.3 in x 1.6 in x 1.6 in (84 mm x 41 mm x 41 mm) 250 ml: 5.7 in x 2.3 in x 2.3 in (145 mm x 58 mm x 58 mm)
Weight	3.7 oz (101 g) - Data Logger only
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.

Ordering Information

ThermAlert-P	PN 901698-00	Wireless Temperature data logger with precision RTD probe
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-P

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

Countries approved for use, purchase and distribution of the ThermAlert-P: 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