Temperature Alert

LAN-based Temperature and Humidity Data Logger

- LAN-based Temperature and Humidity Monitoring Supports Simultaneous WiFi and Hardwired Interfaces
- ✓ -20°C to +60°C (-4°F to +140°F) Standard Temperature Measurement Range
- ✓ 10% to 90% Measurement Range with RH Sensor
- ✓ Combined Temperature/Humidity or Temperature Only measurements on each of Four Ports
- ✓ -200°C to +200°C (-328°F to +392°F) Measurement Range with Optional Probe
- Built-in Web Server Accessible and Configurable via Any Standard Web Browser
- ✓ **Programmable Alarm Limits Per Channel**
- ✓ Real Time email Alerts
- ✓ NTP Server Support for Accurate Time and Date Stamps
- ✓ Built-in Memory for Stand-alone Operation
- ✓ Server-based Real Time Graphical Display
- Easy Access to XML Feed and Text File for Historical Data
- Excel-compatible Format for Easy Analysis and Report Generation
- Administrative Access Protected by User Name Name and Password
- ✓ Optional NIST Calibration Available
- Pre-drilled Flange Allows Mounting Temperature Alert to Any Surface



Temperature Alert Description

Temperature Alert is an affordable, local area network (LAN)-based device for real time monitoring of temperature, or temperature and humidity.

Temperature Alert provides all the features you'd expect from much more costly solutions. It includes both a WiFi radio and a hard wired Ethernet interface to connect to your LAN. Once connected its built-in web server gives you access to all of the product's features.

You can set alarm levels on a channel-by-channel basis; program SMTP parameters to report real time alarms, data and status to any email address; retrieve a text file and XML feed for manual or programmatic access to historical data. Preference settings allow you to configure temperature reporting in °F or °C. Set your time zone to report time and date stamps in local time, and specify an NTP time server to keep Temperature Alert precisely synced to Internet-based time servers. Multiple Temperature Alerts may be deployed and individually named for your application ("Freezer Room", "Archive Warehouse", etc.), and access to them can be strictly controlled with user names and passwords. Full-featured LAN interface flexibility is built in, so Temperature Alert easily adapts to the most basic and most complex network configurations.

Temperature Alert is provided with an AC adaptor power supply and one temperature probe, or a temperature and humidity probe (6 ft, 1.8 m) depending upon the model selected. A selection of optional temperature and humidity probe configurations is also available.

Temperature Alert Close-up



Temperature Alert Features

Full Email Support

Send alerts, status, complete data files, and daily high, low, and average readings to any email address. Features a quick configuration mode for any Google gmail account.

Fast and Easy Setup With Gmail

Do the peculiarities of the SMTP elude you? Then use a free Google gmail account and Temperature Alert's one button gmail configuration setup to send email to any email address. Just select web-based network time protocol servers to automatically sync its "Gmail SMTP", your gmail user name and password, and the email address where you'd like reports to be sent. It's that easy.

Support for Four Sensors

Measures temperature and/or humidity from each of four sensor ports to minimize deployment cost.

Built-in Security Enhancements

Access to Temperature Alert may be strictly controlled with a user name and password, and its built-in web server means that you access it using a standard web browser with no software installed on your computer. Supports SSL/TLS cryptographic protocols to provide communication security over the Internet.

Operating System-independent

Since Temperature Alert provides a built-in web server, it can be accessed from any computer running any operating system with any web browser.

Graphical Waveform Display

When accessed using any standard web browser, Temperature Alert's home page features Flash-based graphics to convey historical recorded data. The time frame may be compressed or expanded to display more or less time history as required.

NTP Time Server Support

Provided that Temperature Alert has Internet access it can use NTP clock to those web standards.

Built-in Wireless and Hardwired Ethernet Interfaces

Use either or both depending upon your networking requirements.

Flexible Naming Options

Each Temperature Alert sensor port may be assigned a unique name to identify it in generated reports, and Temperature Alert mainframes also can be uniquely named to distinguish them from others when multiple units are deployed.

Integral Mounting Flange

Secure Temperature Alert in any deployment orientation with the pre drilled mounting flange.





Web Server Overview

Temperature Alert's built-in web server gives you access to a multitude of powerful features, all from the convenience of your web browser, without any installed software, and regardless of computer operating system.

Built-in Security



Temperature Alert's security features prevent unauthorized access by requiring a user name and password.

Home Page Features Quick-look Status



Web Server Overview (continued)

Email Alarms for any Condition

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ports.	Status Alarm Settings Connection Settings Mail Settings SNMP Settings Preferences Help	
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Define high and low	Custom port name: Port 1	
limits for temperature	Temperature Probe 1	
outside these ranges	Send an e-mail to you@yourdomain.com	
trigger an email alert.	above 85 degrees or below 10 degrees.	
	Humidity Probe 1	
	Send an e-mail to you@yourdomain.com when the humidity gets	
	above 85 percent or below 10 percent.	
Define an email address target per port for	Sensor Port 2	
alerts.	Custom port name: Port 2	
	Temperature Probe 1	
	Send an e-mail to you@yourdomain.com when the temperature gets	
	above 85 degrees or below 10 degrees.	
	Humidity Probe 1	
	Send an e-mail to you@yourdomain.com when the humidity gets	
	above 85 percent or below 10 percent.	
Click to manually detect and reset sensors after a reconfiguration.	Save Force Sensor Detection	
	Reset Sensors	
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Web Server Overview (continued)

Adapts to any LAN Configuration



Quick and Easy Email Configuration



Web Server Overview (continued)

Configure SNMP Traps

SNMP traps allow a base station to proactively alert a LAN-based administrative computer to alarm conditions. This removes the need for the administrator to continuously poll the base station.

SNMP settings are optional.

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Preferences



Typical Email Alerts and Status Updates

Email Alerts

Two typical email alerts, one for temperature and another for humidity.



Daily Status Emails

An example of the daily status report sent from the free gmail account. The base station is configured to send these once per day to the target email sales@dataq.com.



Daily Report Detailed Text File

A typical text file attached to daily status emails, or accessible at any time via download directly from the base station provides all acquired temperature and humidity data. Time and date stamps are also provided for each sample.

The file's delimited format allows data to be easily imported to any presentation and analysis application, like Microsoft Excel.

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The text files created by a Temperature Alert base station are easily imported to any presentation and analysis application. One of the most popular is Microsoft Excel.

Temperature Alert Specifications

Model:	Temperature Alert WiFi edition	Chipset:	Atheros AR2315 chipset
Part Number:	TM-WIFI350	Memory:	32MB DRAM, 8MB Flash
Dimensions:	1.25" × 4.00" × 6.00"	Operating System:	Open WRT
	$(32 \times 102 \times 152 \text{ mm})$	Installation Location:	Indoors
Processor:	32-bit MIPS R4Kc-class processor	Requires Computer Running:	No
	183MHz	Software Requirements:	Any current web browser
Flash:	64 Mbit (8MB) of 3V supply flash	Hardware Requirements:	Accessible WiFi Signal
DAM.	256 Mbit 22(MP) of 16 bit 166MHz	Battery Back-up Operation:	No
KAW.	SDRAM	Internal Temperature Probe:	No
Ethernet:	10/100 Base-TX Ethernet Port with	External Temperature	Yes (1 or 2)
Eulemen	PoE	Probe(s):	
Operating Temperature:	0°C to 40°C (32°F to 104°F)	Pre-calibrated Sensor(s):	Yes (1 or 2)
Power Source:	9-48VDC	Expansion Options:	1 or 2 Sensors Standard (up to 20 special
Operating Current:	0.38A Typical @ 12V		order)
Included power supply requirements:	115 VAC	Celcius and Fahrenheit:	User Selectable
Pre-calibrated Sensor(s):	Yes	Real-time Temperature Alerts:	Yes (email)
Temperature Sensor Range:	-20°C to 60°C (-4°F to 140°F)	Alert Frequency Minimum:	
Temperature Sensor Accuracy:	±0.5°C Accuracy from -10°C to	Alert Frequency Maximum:	9999 minutes
1	+85°C	Continuous or One-time	User Selectable
Temperature Sensor Datasheet:	http://datasheets.maxim-ic.com/en/	Email Alert:	Ves
	ds/DS18B20.pdf	Action on Return to Normal:	Email
Optional Temperature/Humidity	-20°C to 60°C (-4°F to 140°F)	PC Shutdown:	No
Sensor Range:	10% to 90% RH (a) operating tem-	Real-time Temperature Graph:	Yes
Temperature/Humidity Sensor	$\pm 0.5^{\circ}$ C Accuracy from $\pm 10^{\circ}$ C to	Browser-based Web Access	Yes internal network
Accuracy:	+85°C: ±3%RH	Action on Fault	None
Standard Sensor Cable Length:	6 feet (1.8 meters)	Data Logging:	Yes
Maximum sensor Cable Length:	100 feet (30 meters)	Data Log Format:	Text. XML
Network Requirements:	WiFi Network (802:11 b/g) or Wired	Supports SMTP Authentication:	Yes
Ĩ	Ethernet	SNMP:	Yes
Wireless:	802.11b/g, WPA/WEP security	Software Upgrades:	1 year free
Output Power:	500mw	Included:	Embedded software, 6ft. (1.8m) external tem-
Antenna:	2dbi (RPSMA)		perature sensor, power adapter
		Warranty:	1 year
		Money Back Guarantee:	30 days risk free

Base Stations TM-WIFI350 4-port Temperature Alert base station. Include TM-WIFI350-TH 4-port Temperature Alert base station. Include Accessories and Probe Options Description M NIST Certification ¹ AC-NI	es model AC-7 es model AC-7 fodel	FMPRJ126 temp FMPHRJ126 ter Waterproof	perature probe and AC nperature & humidity p UV, chemical, and	adaptor. probe and AC adaptor	TM-V TM-WI	VIFI350 FI350-TH
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TM-WIF1350-TH 4-port Temperature Alert base station. Include Accessories and Probe Options Description M NIST Certification ¹	es model AC-1 fodel	rMPHRJ126 ter Waterproof	nperature & humidity j	probe and AC adaptor	TM-WI Measure	FI350-TH
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	ISI CLIVI					
AC-TI	MPRJ126			6 (1.8)	~	
Standard sansars ² AC-TM	MPRJ1215			15 (4.6)	~	
AC-TM	MPRJ1230			30 (9.1)	~	
AC-TM	MPRJ1250			50 (15.2)	~	
Expanded range sensor ³ AC-TM	IPEXRJ12	~		6 (1.8)	~	
Stainless steel sheathed sensor ² AC-TMPH	RJ1230-SS15	~		30 (9.1)	~	
Ruggedized stainless steel AC-TM sensor ² SS	4PRJ1230- 515-R	~	~	30 (9.1)	~	
AC-TN	/IPHRJ126			6 (1.8)	~	~
Standard sansars ² AC-TM	IPHRJ1215			15 (4.6)	~	~
AC-TM	IPHRJ1230			30 (9.1)	~	~
AC-TM	IPHRJ1250			50 (15.2)	~	~
Ruggedized sensor ² AC-TMP	PHRJ1230-R		~	30 (9.1)	~	~

Ordering Cuide

¹Must be ordered at the same time as the sensor

²Standard temperature range: -20° C to $+60^{\circ}$ C (-4° F to $+140^{\circ}$ F)

³-200°C to +200°C (-328°F to +392°F)



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Data Acquisition Product Links

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