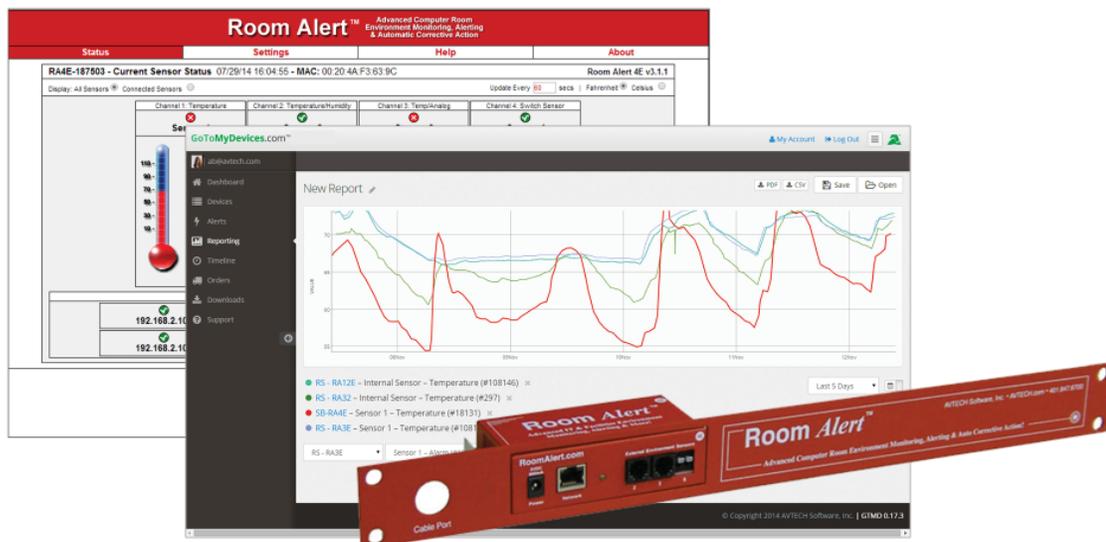


Room Alert® 4E

Temperature & Environment Monitoring... *Made Easy!*



Phone **401.628.1600**
Fax **401.628.1601**
Web **AVTECH.com**

**User's Guide &
Reference Manual**

Protect Your Facility...

Don't Wait Until It's Too Late![™]



Install Room Alert[®] Monitors

The Most Advanced, Easy-To-Use, Reliable & Affordable Monitors Available To...

MONITOR, ALERT... LOG, GRAPH... VIEW, REPORT... MANAGE, PROTECT...

- Digital Temperature
- Digital Outdoor Temperature
- Digital Fluid Temperature
- Digital Humidity
- Main / UPS Power
- Flood / Water
- Current Loops (Amperage)
- Extreme Temperature
- Heat Index (Feels Like)
- Smoke / Fire
- Fuel / Water Tank Level
- Air Flow, Sound, Light
- Motion, Room Entry
- Panic Button, Security
- Light Towers, Relay Switches
- Wireless Sensor Hubs
- Network Cameras
- Analog Power & Temp Sensors
- Switch Sensors
- Dry Contacts
- Low Voltage Sensors

**On behalf of the entire team at AVTECH,
we say, “Thank You!” It is our privilege to
serve you, our valued customer.**

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Special Thanks

We would like to recognize field test participants, our inhouse support staff and the entire software & hardware development teams for their contributions and assistance in completing this manual.

Sales, Support & Contact Information

To receive further information or assistance regarding this publication, or any AVTECH product or service, please contact:

Headquarters	AVTECH Software Inc. 16 Cutler Street, Cutler Mill Warren, RI 02885-2761 USA	Email	Sales@AVTECH.com Support@AVTECH.com Info@AVTECH.com
Phone	401.628.1600	Web	AVTECH.com EnvironmentMonitor.com GoToMyDevices.com RoomAlert.com
Sales	888.220.6700		
Fax	401.628.1601		



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Appendix: Sensor & Product Options



AVTECH.com

Protect Your Facility... *Don't Wait Until It's Too Late!*

Introduction To Room Alert 4E

The Room Alert 4E monitor is AVTECH's compact hardware solution for *Temperature & Facilities Environment Monitoring... Made Easy.*

The Room Alert 4E has one (1) internal temperature sensor and four (4) external ports: two (2) external digital, one (1) external switch and one (1) custom Light Tower & Relay Switch Sensor port.

Install your unit with minimal planning and less hassle.

- ✓ Get up and running in minutes with easy "Plug and Play" setup.
- ✓ Mount Room Alert 4E on a rack, on a wall, ceiling or table top.

Get access from anywhere over the web.

- ✓ Configure, monitor and operate Room Alert 4E with its easy-to-use built-in web interface.
- ✓ Significantly expand its functionality with AVTECH's Device Manager, the powerful software bundled FREE with all Room Alert monitors.
- ✓ Have the flexibility to monitor with any SNMP-enabled 3rd-party monitoring application.

Know immediately when physical conditions change.

- ✓ Set alert thresholds for the built-in and bundled Digital Temperature sensor from -40° to 185° F (-40° to 85° C).
- ✓ Alert multiple contacts on your team when thresholds are exceeded.
- ✓ Receive alert notifications by email, email-to-SMS and more on your computer or mobile phone.

Expand your options as your needs evolve.

- ✓ Extend your reach by adding an external digital sensor up to 100 feet away and an external switch sensor up to 900!
- ✓ Generate clear visible and audible signals by adding a Light Tower.
- ✓ Automatically turn on/off electrical devices, such as air conditioners or generators, by adding a Relay Switch Sensor.
- ✓ Explore your options further with your AVTECH Product Specialist.

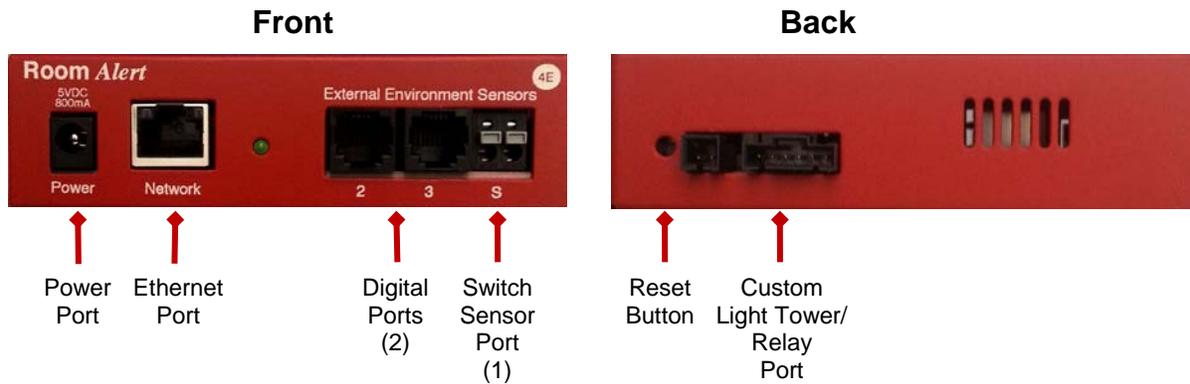
Room Alert 4E

Room Alert 4E Package Contents

The standard Room Alert 4E package includes:

- One (1) Room Alert 4E ID Box
- One (1) External Digital Temperature Sensor
- One (1) 10' Ethernet Cable
- One (1) Room Alert 4E User's Guide & Reference Manual (You're reading it now.)
- One (1) Package Of Literature & Additional Information

The Room Alert 4E ID Box



Front

Power Port





Look for the AVTECH logo. Using another power adapter could damage the Room Alert 4E's circuit board. If you need one, purchase it online at AVTECH.com. AVTECH has an international power adapter with a compatible plug style for each and every country.

Ethernet Port



An RJ-45 port connects Room Alert 4E to your network via an RJ-45 network cable.

Digital Sensor Ports



Two (2) standard RJ-11 jacks connect any AVTECH digital sensor to your Room Alert 4E via a standard RJ-11 (straight through) telephone cord.

Switch Sensor Channel



A pair of dry contacts connects Room Alert 4E to any AVTECH switch sensor via standard speaker wire or low-voltage 2-wire cable.

Back

Reset Button



A small push button resets Room Alert 4E to factory default settings.

Room Alert 4E

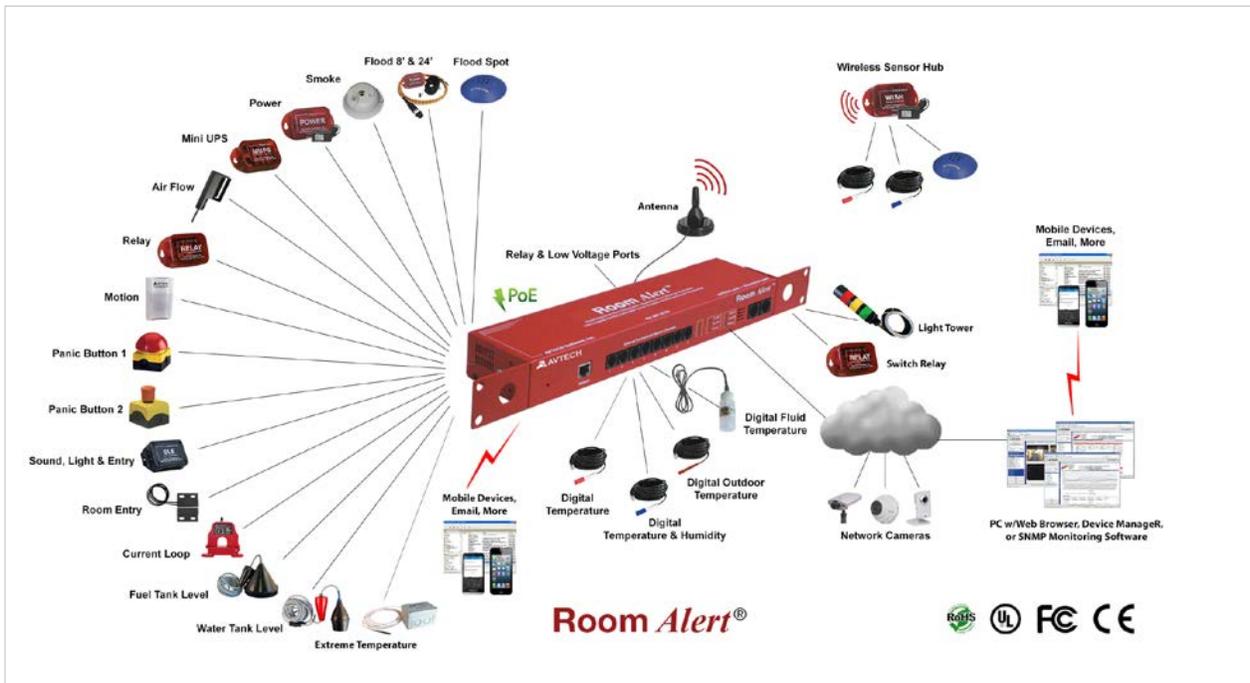
Custom Light Tower & Relay Switch Sensor Port



The custom port allows you to directly connect a Light Tower or Relay Switch Sensor to the Room Alert 4E.



For more information about AVTECH sensors and accessories, please refer to the [Appendix](#) at the back of this manual or visit the [Sensors and Accessories](#) sections of [AVTECH.com](#).



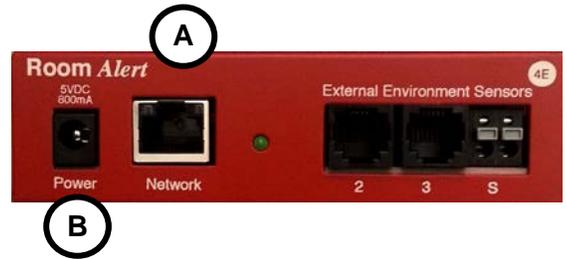
Sample Room Alert 32W Layout

How To Install Your Room Alert 4E

Step 1: Connect Your Room Alert 4E Hardware

A. Connect to your network first.

- Connect one end of a standard Ethernet cable to the Room Alert 4E's Ethernet port.
- Connect the other end to a network jack.



B. Then connect to a power source.

- Plug one end of AVTECH's International Power Adapter into the Room Alert 4E's power port.
- Plug the other end into a surge-protected power source.

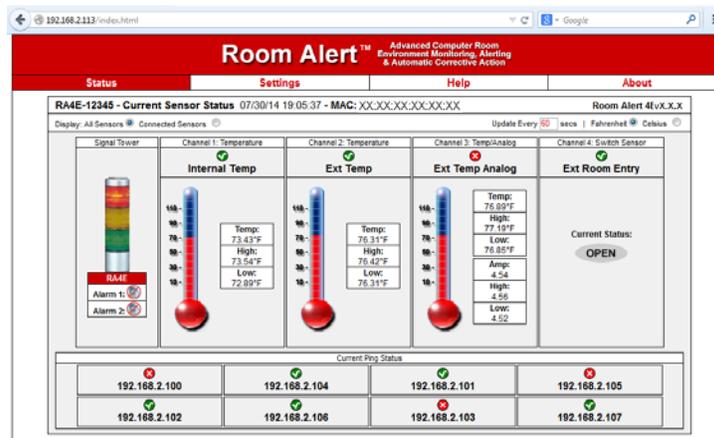
Your Room Alert 4E is now powered and discoverable on your network!



Use only AVTECH's International Power Adapter. Others could damage the Room Alert 4E and void your warranty. If you don't have one, please visit our online store at AVTECH.com.

Step 2: Open And View Your Room Alert 4E In Your Web Browser

With The Built-In Web Interface

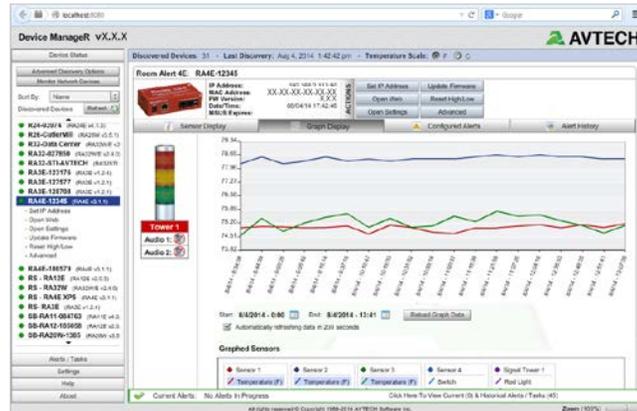


- Enter your Room Alert 4E's IP address in your web browser's address bar to access the interface.

Room Alert 4E

OR

With Device Manager For Advanced Functionality



- Download and install AVTECH's Device Manager via your customer account at AVTECH.com/Downloads.
- Launch it in your web browser at <http://localhost:8080>.

Step 3: Install Additional Components

Connect Included External Sensor(s)

AVTECH's external Digital Temperature Sensor, shown here, comes standard with the Room Alert 4E package.

Digital Temperature Sensor



Please install according to the Installation Note included with it.

Connect Compatible Components

If you purchased additional components that are compatible, install them according to the Installation Notes included with them.

NOTE



Please refer to [Status](#), [Settings](#), and [Alarm Options](#) in this manual for instructions on viewing and configuring your external



Sample Of Sensors Available For Room Alert

How To Use Room Alert 4E's Web Interface

You may configure your Room Alert 4E through its built-in web interface. To access the interface, you may either:

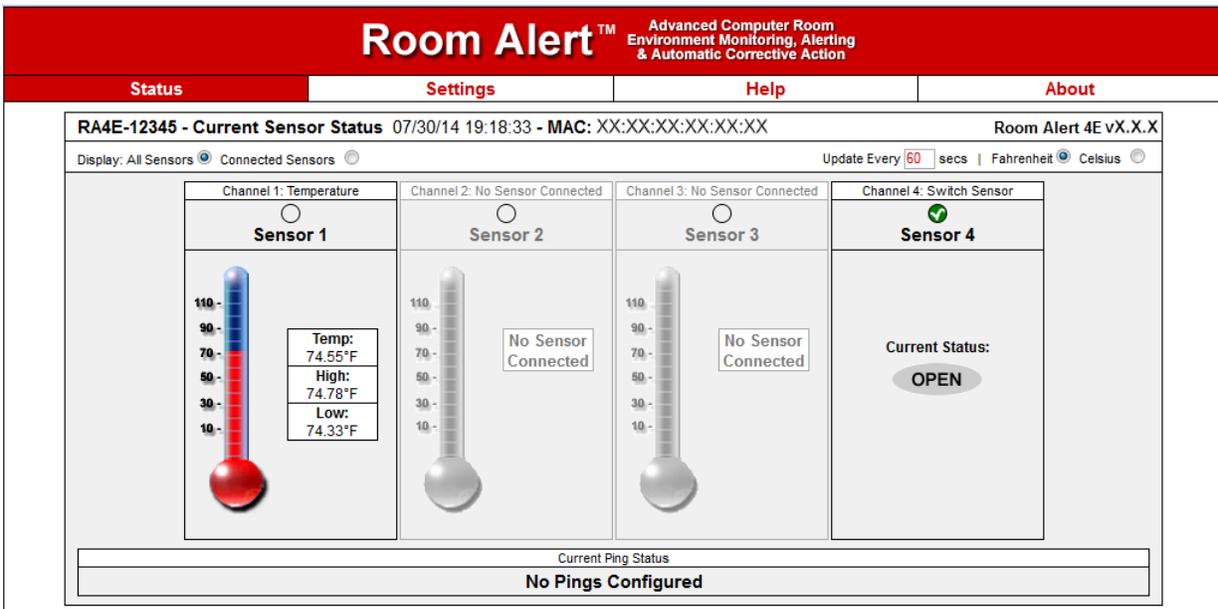
- Select your Room Alert 4E in Device Manager and click the “Open Web” button.
- or
- Type the IP address of your Room Alert 4E monitor directly into the address bar of your web browser.

Your Room Alert 4E's web interface has 4 tabs:

- Status
- Settings
- Help
- About

Status

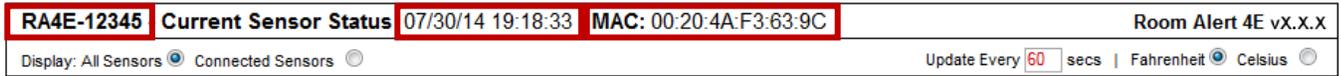
To view your Room Alert 4E's current sensor status, click **Status** in the navigation bar at the top of your screen.



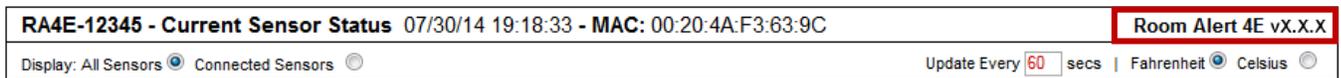
Current Sensor Status Bar

Below the Status tab is the Current Sensor Status Bar, where you may view basic information about your Room Alert 4E and make temporary adjustments to the sensor display.

- You may find your Room Alert 4E's name, current date & time, and MAC address here.



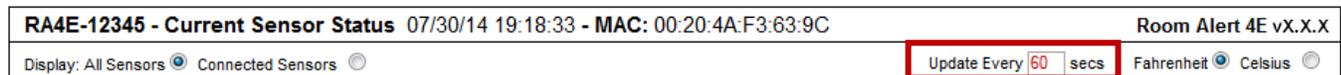
- To determine if your Room Alert 4E's firmware is current, you may click **Room Alert 4E vX.X.X** at the right.



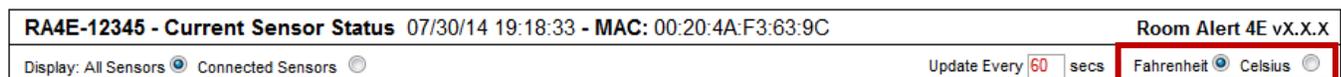
TIP

Your Room Alert 4E must be connected to the internet to check firmware versions.

- To temporarily modify the refresh interval of the Status screen while viewing, which is 60 seconds (i.e., every 1 minute) by default, you may enter a value in seconds in the "Update Every" field. Click outside the field to temporarily commit the change.



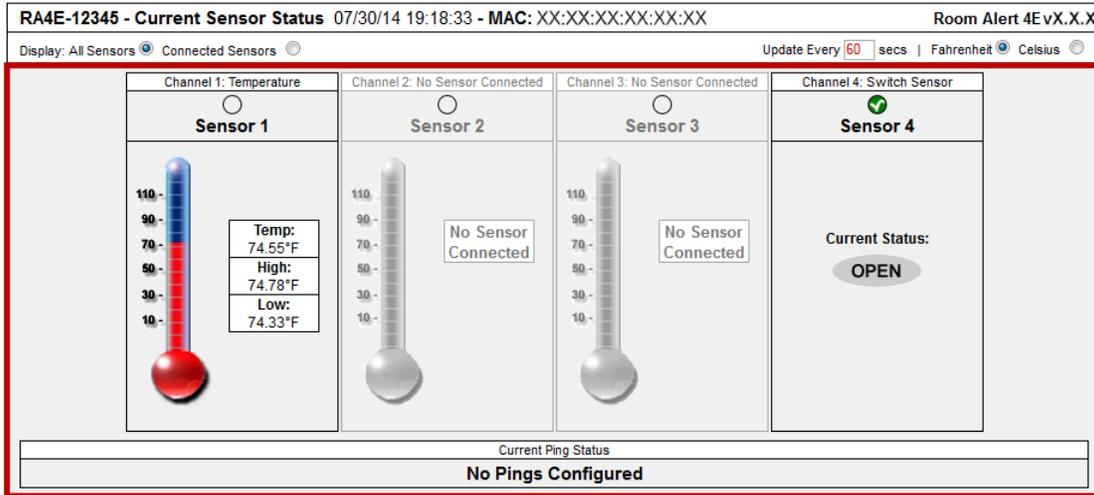
- To temporarily toggle the temperature scale between Fahrenheit (F) and Celsius (C), click **Fahrenheit** or **Celsius**.



NOTE

Refer to the [Advanced](#) section in this manual for instructions on setting the default status page refresh rate and temperature scale for Room Alert 4E.

Sensor Display Area



In the main viewing pane of the Status tab is the “Sensor Display Area.” Here you may view the current readings for your sensors, which are displayed in a grid on the screen as follows:

Light Tower or Relay Switch Sensor (when enabled in Settings)	<i>Channel 1</i> Internal Temperature Sensor	<i>Channel 2</i> External Digital Sensor	<i>Channel 3</i> External Digital Sensor	<i>Channel 4</i> External Switch Sensor
	Pings (when configured in Settings)			

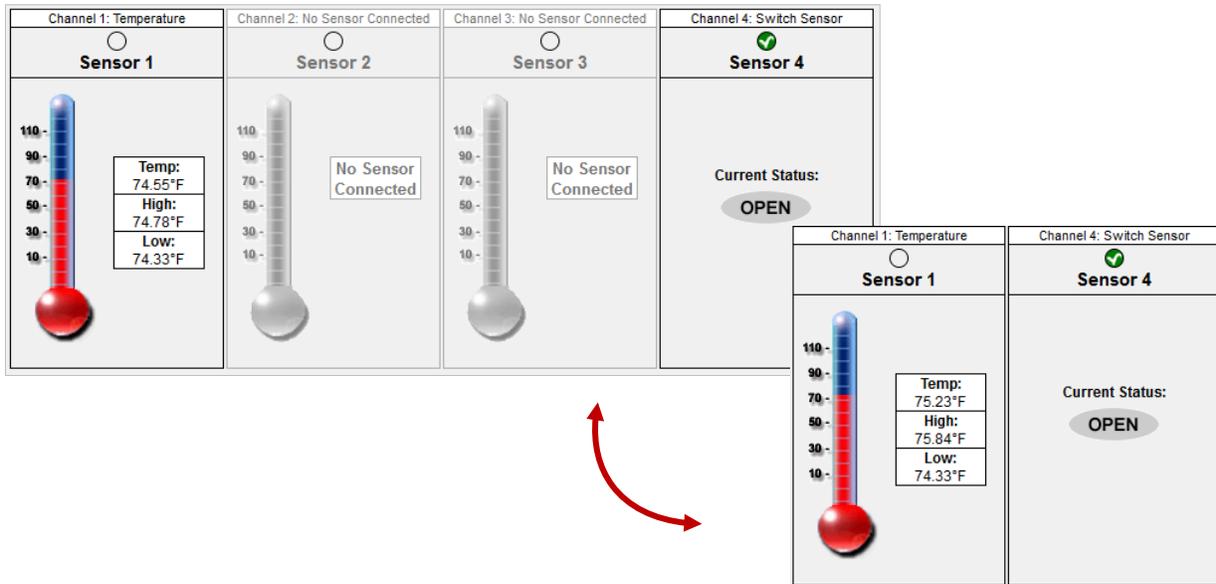
Below the channels, you see the status icons and the labels for your sensors, which you may configure in **Settings** → **Sensors**.

Status Icons

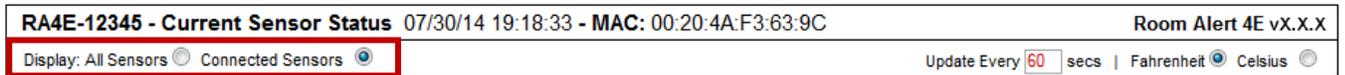
-  Green circle with “✓” mark..... Sensor is in a clear state.
-  Grey circle..... Sensor has no alarm threshold set.
-  Red circle with “X” mark..... Sensor is in an alarm state.

Display All Sensors / Connected Sensors

If you have no external digital sensor connected, you may temporarily hide Channels 2 and 3:



1. To hide the disconnected digital sensor, click **Connected Sensors** in the Current Sensors Status Bar as shown here.



2. To toggle the view back to all 4 sensor channels, click **All Sensors**.

Settings

To access your Room Alert 4E's settings, click **Settings** in the navigation bar at the top of your screen.

Room Alert™

Advanced Computer Room
Environment Monitoring, Alerting
& Automatic Corrective Action

Status **Settings** **Help** **About**

MAC Address: XX-XX-XX-XX-XX-XX Version: X.X.X

Network Settings

Network
SMTP Email
SNMP
Sensors
Ping Options
Alarm Options
Security
Advanced

Save Settings
Reset Defaults

Device Name: RA4E-12345

IP Address Configuration

Obtain IP Address Automatically

Auto Configuration Methods

BOOTP
 DHCP
 AutoIP

Use The Following IP Configuration

IP Address:
Subnet Mask:
Default Gateway:
DNS Server IP:

Ethernet Configuration

MTU Size:

Auto Negotiate:

Speed: 100 Mbps 10 Mbps

Duplex: Full Half

Gratuitous ARP Broadcasts:

TIP



You'll see a prompt for your username and password whenever you click **Settings**. If you have not set up log in credentials for your Room Alert 4E, simply click **OK** without entering anything.

Network

Navigate to **Settings** → **Network** to open the Network Settings screen.

Device Name

The diagram illustrates the renaming process. It consists of two rectangular boxes. The top box has a label 'Device Name' on the left and a text input field containing 'RA4E-12345' on the right. A red arrow points downwards from the input field to a second box. The second box also has a label 'Device Name' on the left and a text input field containing 'Server Rm RA4E' on the right.

To rename your Room Alert 4E:

1. Select the automatically-assigned name in “Device Name” and enter a new one of up to 15 alphanumeric characters.
2. Click **Accept Changes** at the bottom of your screen to temporarily save your settings. You may now navigate to another screen; however, if you close the web interface before the next step, you will lose your changes.
3. Click **Save Settings** in the navigation bar to the left of your screen. Your Room Alert will automatically reboot and commit your changes.

IP Address Configuration—DHCP

The screenshot shows the IP configuration settings. At the top, there is a radio button labeled 'Obtain IP Address Automatically' which is selected. Below this is the heading 'Auto Configuration Methods'. Underneath, there are three checked checkboxes: 'BOOTP', 'DHCP', and 'AutoIP'.

To obtain an IP address automatically using DHCP:

1. Select **Obtain IP Address Automatically**.
2. Typically, leave “Auto Configuration Methods” at the default, with “BOOTP,” “DHCP” and “AutoIP” enabled.
3. Click **Accept Changes** at the bottom of your screen to temporarily save your settings. You may now navigate to another screen; however, if you close the web interface before the next step, you will lose your changes.

Room Alert 4E

4. Click **Save Settings** in the navigation bar to the left of your screen. Your Room Alert will automatically reboot and commit your changes.

IP Address Configuration—Static IP

Use The Following IP Configuration

IP Address

Subnet Mask

Default Gateway

DNS Server IP

To assign a static IP address:

1. Select **Use The Following IP Configuration**.
2. In “IP Address,” enter the new static IP address.
3. In “Subnet Mask,” enter the subnet mask.
4. In “Default Gateway,” enter the gateway IP address.
5. In “DNS Server IP,” enter the DNS server IP address.
6. Click **Accept Changes** at the bottom of your screen to temporarily save your settings. You may now navigate to another screen; however, if you close the web interface before the next step, you will lose your changes.
7. Click **Save Settings** in the navigation bar to the left of your screen. Your Room Alert will automatically reboot and commit your changes.

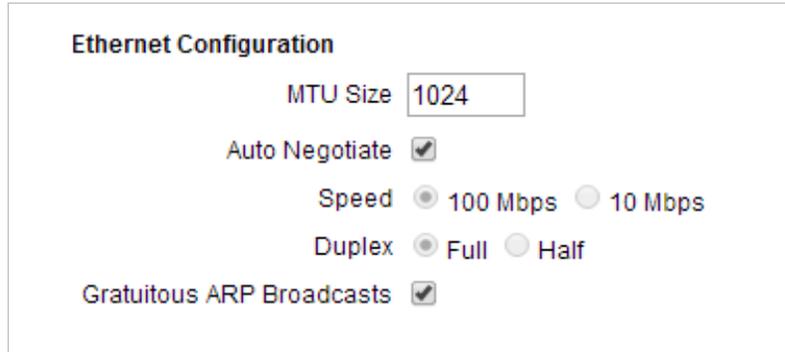
TIP



IMPORTANT: Make sure that you do not use an IP address that is already assigned to another device. Also, set the IP address within your current subnet range; otherwise, you may not be able to discover your Room Alert 4E.

Ethernet Configuration

Typically, you may leave the “Ethernet Configuration” section at the defaults, which are shown below, for immediate use of Room Alert 4E.



Ethernet Configuration

MTU Size

Auto Negotiate

Speed 100 Mbps 10 Mbps

Duplex Full Half

Gratuitous ARP Broadcasts

However, if you connect your Room Alert 4E to a managed switch that controls your network traffic, you may need to change these settings:

1. In “MTU Size,” you may leave the default, 1024, or enter a value as low as 512.
2. You may uncheck “Auto Negotiate” and choose:
 - For “Speed,” 100 Mbps or 10 Mbps.
 - For “Duplex,” “Full” or “Half.”
3. In “Gratuitous ARP Broadcasts,” you may leave the checkbox at the default (enabled) or uncheck the box to disable.
4. Click **Accept Changes** at the bottom of your screen to temporarily save your settings. You may now navigate to another screen; however, if you close the web interface before the next step, you will lose your changes.
5. Click **Save Settings** in the navigation bar to the left of your screen. Your Room Alert will automatically reboot and commit your changes.

Room Alert 4E

SMTP Email

You may configure your Room Alert 4E to send alerts via email and email-to-SMS.

Navigate to **Settings** → **SMTP Email** to open the Email Settings screen.

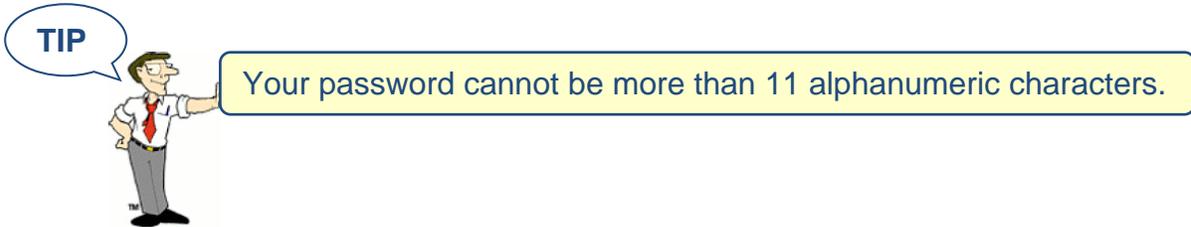
Status	Settings	Help	About
MAC Address: XX-XX-XX-XX-XX-XX	Version: X.X.X		
Network	Email Settings		
SMTP Email	Email Enabled <input checked="" type="checkbox"/>		
SNMP	Email Footer Enabled <input checked="" type="checkbox"/>		
Sensors	Use SMS <input type="checkbox"/>		
Ping Options	Mail Server Port <input type="text" value="25"/>	Timeout <input type="text" value="5"/>	
Alarm Options	Mail Server <input type="text" value="mail.yourco.com"/>	* Domain Name or IP	
Security	Return Address (From) <input type="text" value="RoomAlert@YourCo.com"/>		
Advanced	Display URL <input type="text" value="192.168.123.16:80"/>		
Save Settings	Authentication (optional)		
Reset Defaults	Enable Authentication <input checked="" type="checkbox"/>		
	Username <input type="text" value="RoomAlert@YourCo.com"/>		
	Password <input type="password" value="••••••••••"/> * Max 11 Characters		
	Email Recipients (Separated By Comma)		
	Email Addresses <input type="text" value="ITMgr@YourCo.com, 1235551900@ATT.bt.net, FacilitiesDept@Your"/>		
	<input type="button" value="Send Test Email"/>		
	<input type="button" value="Accept Changes"/>		

1. Check **Email Enabled**.
2. Leave the **Email Footer Enabled** checked to include AVTECH contact information with email messages.
3. Check **Use SMS** to send a shorter email with a reduced character count.
4. In “Mail Server Port,” enter your mail server’s SMTP port. The default is 25, a commonly-used port.
5. In “Timeout,” you may leave the default, 5 seconds, or enter another interval.
6. In the “Mail Server” field, enter the domain name or IP address of your mail server.
7. In the “Return Address (From)” field, enter an email address that resides on your mail server. This is the address alert messages will come from.

- In “Display URL,” you may leave the default, which is the IP address and port of your Room Alert 4E, or overwrite it with another IP address.

Authentication (Optional)

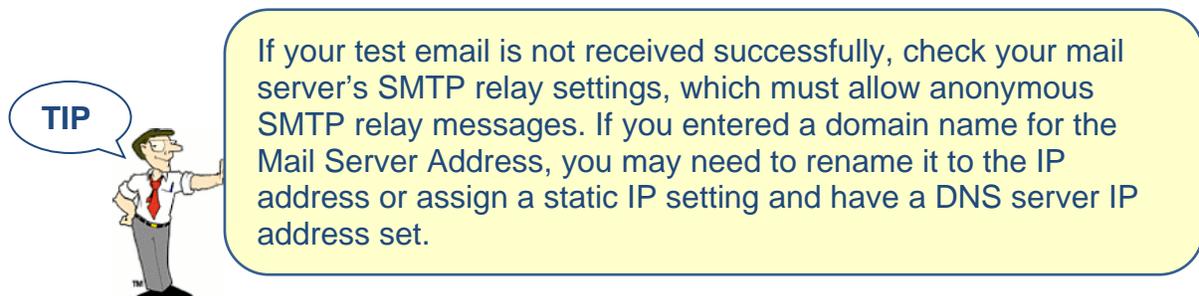
- If your mail server requires SMTP authentication, check **Enable Authentication**.
- In “Username” and “Password,” enter a valid username and password for your mail server that will facilitate authentication.



Email Recipients (Separated By Comma)

- In “Email Addresses,” enter the email and email-to-SMS addresses that you’d like to send alerts to. Separate each address with a comma.
 - Email address: ITMgr@YourCo.com
 - Email-to-SMS address: 1235551900@ATT.txt.net
 - Addresses separated by commas: ITMgr@YourCo.com, 1235551900@ATT.txt.net, etc.
- Click **Accept Changes** at the bottom of your screen to temporarily save your settings. You may now navigate to another screen; however, if you close the web interface before the next step, you will lose your changes.
- Click **Save Settings** in the navigation bar to the left of your screen. Your Room Alert will automatically reboot and commit your changes.

When your Room Alert reboots, return to the Email Settings screen and click **Send Test Email** to send a test email to the addresses you entered in Email Recipients.



Room Alert 4E

Simple Network Management Protocol (SNMP)

Because your Room Alert 4E is fully SNMP-compliant, you have the option to monitor it with a 3rd-party monitoring application capable of performing SNMP queries. You may configure the Room Alert 4E to send SNMP Traps in response to a change in alarm states to up to three host systems running 3rd-party SNMP monitoring applications.

If you use a 3rd-party SNMP monitoring application:

- Obtain the Room Alert 4E MIB files through your customer account at AVTECH.com/Downloads and load them into your SNMP monitoring application. Otherwise, your application cannot properly translate the data it receives in the SNMP Trap.
- Ensure that your application uses SNMPv1.
- Note that your Room Alert communicates with your SNMP monitoring application using the standard port for the SNMP protocol, 161.

Navigate to **Settings** → **SNMP** to open the SNMP Settings screen.

Status	Settings	Help	About
MAC Address: XX-XX-XX-XX-XX-XX	Version: X.X.X		
Network	SNMP Settings		
SMTP Email	SNMP Configuration		
SNMP	Community Name <input type="text" value="public"/>	<input type="checkbox"/> Use 2 digit SNMP	
Sensors	Contact (sysContact) <input type="text"/>		
Ping Options	Location (sysLocation) <input type="text"/>		
Alarm Options	SNMP Trap Sending Configuration		
Security	Trap Send IP 1 <input type="text" value="0.0.0.0"/>		
Advanced	Trap Send IP 2 <input type="text" value="0.0.0.0"/>		
	Trap Send IP 3 <input type="text" value="0.0.0.0"/>		
Save Settings	SNMP Trap Receiving Configuration		
Reset Defaults	Trap Receive IP 1 <input type="text" value="0.0.0.0"/>		
	Trap Receive IP 2 <input type="text" value="0.0.0.0"/>		
	Trap Receive IP 3 <input type="text" value="0.0.0.0"/>		
	<input type="button" value="Accept Changes"/>		

SNMP Configuration

SNMP Configuration	
Community Name	<input type="text" value="public"/> <input type="checkbox"/> Use 2 digit SNMP
Contact (sysContact)	<input type="text" value="IT Manager"/>
Location (sysLocation)	<input type="text" value="Data Center"/>

To begin configuring your Room Alert 4E for SNMP:

1. In “Community Name,” you may leave the default SNMP protocol community name—“public”—or enter a new name.



The community name you assign here must match the one in your 3rd-party SNMP monitoring application.

2. You may leave “Contact (sysContact)” blank or enter a person’s name to specify who is receiving the information.
3. You may leave “Location (sysLocation)” blank or enter the location of your Room Alert 4E monitor.
4. You may click **Use 2 digit SNMP** if you prefer to receive values in 2-digit rather than 4-digit format.



Room Alert 4E sends values to your 3rd-party SNMP monitoring application in 4-digit format by default. 78.55° F, for example, appears as 7855. In 2-digit format, your values are truncated, not rounded to the nearest number. In this example, 78.55 would appear as 78.

Then continue on to the *SNMP Sending Configuration* or *SNMP Receiving Configuration* section of the page, explained below.

Room Alert 4E

SNMP Sending Configuration

You may configure your Room Alert 4E to send SNMP Traps in response to a change in alarm state to up to three host systems running 3rd-party SNMP monitoring applications. Each host system you enter in these fields will receive the same SNMP Traps simultaneously.

SNMP Trap Sending Configuration

Trap Send IP 1

Trap Send IP 2

Trap Send IP 3

To configure your Room Alert to send SNMP Traps:

1. In “Trap Send IP 1,” enter the IP address of the host system that runs your 3rd-party SNMP monitoring application.
2. In “Trap Sent IP 2” and “Trap Send IP 3,” you may enter the IP addresses of other host systems that run 3rd-party SNMP monitoring applications, or leave the default, 0.0.0.0.
3. Click **Accept Changes** at the bottom of your screen to temporarily save your settings. You may now navigate to another screen; however, if you close the web interface before the next step, you will lose your changes.
4. Click **Save Settings** in the navigation bar to the left of your screen. Your Room Alert will automatically reboot and commit your changes.

SNMP Receiving Configuration

You may configure your Room Alert 4E to receive SNMP Traps from up to three other network devices, such as printers, fax machines, etc.

SNMP Trap Receiving Configuration

Trap Receive IP 1

Trap Receive IP 2

Trap Receive IP 3

To configure your Room Alert to receive SNMP Traps:

1. In “Trap Receive IP 1,” enter the IP address of the network device.
2. In “Trap Sent IP 2” and “Trap Send IP 3,” you may enter the IP addresses of other network devices, or leave the default, 0.0.0.0.

3. Click **Accept Changes** at the bottom of your screen to temporarily save your settings. You may now navigate to another screen; however, if you close the web interface before the next step, you will lose your changes.
4. Click **Save Settings** in the navigation bar to the left of your screen. Your Room Alert will automatically reboot and commit your changes.

If the all of the “Trap Receive” IP addresses are left blank, any SNMP trap received will generate an alarm.



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Device Manager Is Included With Room Alert

Room Alert 4E

Sensors

You may configure alert thresholds for the internal temperature, external digital and external switch sensors connected to your Room Alert 4E in this screen. Your Room Alert 4E sends alerts based on these thresholds.



For more information about AVTECH sensors and accessories, please refer to the [Appendix](#) at the back of this manual or visit the [Sensors and Accessories](#) sections of [AVTECH.com](#).

Navigate to **Settings** → **Sensors** to open the Sensor Settings screen.

Status	Settings	Help	About										
MAC Address: XX-XX-XX-XX-XX-XX	Version: X.X.X												
Network	Sensor Settings												
SMTP Email	Sensor 1 Alarm Configuration Sensor Type: Temperature (Fahrenheit)												
SNMP	<table border="1"><thead><tr><th>Sensor Label</th><th>Alarm On</th><th>High</th><th>Low</th><th>Adjust</th></tr></thead><tbody><tr><td>Sensor 1</td><td>Temperature (°F)</td><td>0</td><td>0</td><td>0</td></tr></tbody></table>			Sensor Label	Alarm On	High	Low	Adjust	Sensor 1	Temperature (°F)	0	0	0
Sensor Label	Alarm On	High	Low	Adjust									
Sensor 1	Temperature (°F)	0	0	0									
Sensors	Sensor 2 Alarm Configuration Sensor Type: Not Connected												
Ping Options	<table border="1"><thead><tr><th>Sensor Label</th><th>Alarm On</th><th>High</th><th>Low</th><th>Adjust</th></tr></thead><tbody><tr><td>Sensor 2</td><td>Temperature</td><td></td><td></td><td></td></tr></tbody></table>			Sensor Label	Alarm On	High	Low	Adjust	Sensor 2	Temperature			
Sensor Label	Alarm On	High	Low	Adjust									
Sensor 2	Temperature												
Alarm Options	Sensor 3 Alarm Configuration Sensor Type: Not Connected												
Security	<table border="1"><thead><tr><th>Sensor Label</th><th>Alarm On</th><th>High</th><th>Low</th><th>Adjust</th></tr></thead><tbody><tr><td>Sensor 3</td><td>Temperature</td><td></td><td></td><td></td></tr></tbody></table>			Sensor Label	Alarm On	High	Low	Adjust	Sensor 3	Temperature			
Sensor Label	Alarm On	High	Low	Adjust									
Sensor 3	Temperature												
Advanced	Sensor 4 Alarm Configuration Sensor Type: Switch												
Save Settings	<table border="1"><thead><tr><th>Sensor Label</th><th>Alarm On</th></tr></thead><tbody><tr><td>Sensor 4</td><td>Closed</td></tr></tbody></table>			Sensor Label	Alarm On	Sensor 4	Closed						
Sensor Label	Alarm On												
Sensor 4	Closed												
Reset Defaults	Advanced Sensor Configuration												
	Trigger Alarm If Sensor Is Disconnected? <input type="checkbox"/>												
	<input type="button" value="Accept Changes"/>												

Sensor 1 Alarm Configuration (Internal Temperature Sensor)

You may configure alert thresholds for the Internal Temperature Sensor in the “Sensor 1 Alarm Configuration” fields. The temperature range is -40° to 185° F (-40° to 85° C).

Sensor 1 Alarm Configuration		Sensor Type: Temperature (Fahrenheit)		
Sensor Label	Alarm On	High	Low	Adjust
Internal Temp	Temperature (°F)	80	60	0

1. In “Sensor Label,” you may leave the default label, “Sensor 1,” or rename it to something more descriptive, such as “Internal Temp.”
2. The “Alarm On” field is set at the default of “Temperature (F).”



Refer to the [Advanced](#) section in this manual for instructions on setting the default temperature scale.

3. Enter values in the “High” and “Low” field to set high and low temperature thresholds.
4. Enter a value in the “Adjust” field to calibrate the Internal Temperature Sensor if its reading differs from a known temperature value at that location.
5. Click **Accept Changes** at the bottom of your screen to temporarily save your settings. You may now navigate to another screen; however, if you close the web interface before the next step, you will lose your changes.
6. Click **Save Settings** in the navigation bar to the left of your screen. Your Room Alert will automatically reboot and commit your changes.

Sensors 2 & 3 Alarm Configuration (External Digital Sensors)

You may configure alert thresholds for external digital sensors in the Sensors 2 & 3 “Alarm Configuration” fields.



The digital port also takes a Light Tower & Relay Adapter; however, you do not configure Light Tower or Relay Switch Sensor options here—refer instead to the [Alarm Options](#) section in this manual.

In this example, we'll configure an external Digital Temperature & Humidity Sensor:

Sensor 2 Alarm Configuration		Sensor Type: Temp/Humidity (Fahrenheit)		
Sensor Label	Alarm On	High	Low	Adjust
Temp & Humidity	Temperature (°F)	80	60	0
Monitor Heat Index <input type="checkbox"/>	Humidity (%RH)	50	30	0

1. In “Sensor Label,” you may leave the default label, “Sensor 2,” or rename it to something more descriptive, such as “Temp & Humidity.”
2. The “Alarm On” fields automatically match the type of sensor you connect. In this example, the “Alarm On” settings are Temperature and Humidity.
3. Enter values in the “High” and “Low” field to set high and low thresholds. Your Room Alert 4E will send an alert email or email-to-SMS in response to these temperatures.
4. Enter a value in the “Adjust” field to calibrate your digital sensor if its reading differs from a known value at that location.
5. Click **Accept Changes** at the bottom of your screen to temporarily save your settings. You may now navigate to another screen; however, if you close the web interface before the next step, you will lose your changes.
6. Click **Save Settings** in the navigation bar to the left of your screen. Your Room Alert will automatically reboot and commit your changes.



The options in these fields vary slightly depending on the type of digital sensor you connect. Notice, for example, that the Digital Temperature & Humidity Sensor has a “Monitor Heat Index” option.

Sensor 4 Alarm Configuration (External Switch Sensor)

You may configure the alert state for an external switch sensor in the “Sensor 4 Alarm Configuration” field. Shown below is the default setting for the switch sensor:

Sensor 4 Alarm Configuration		Sensor Type: Switch
Sensor Label	Alarm On	
Sensor 4	Closed ▼	

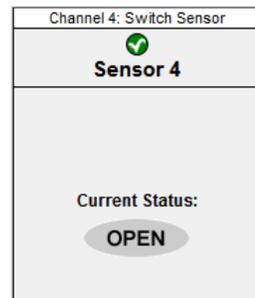
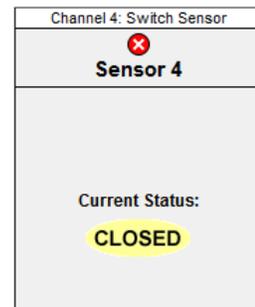
Your Room Alert 4E monitors your switch sensors for an “Open” or “Closed” circuit state. Room Alert defaults to alarming on “Closed,” as you can see above; you may, however, need to change that depending on the type of sensor. AVTECH’s Motion Sensor, for example, is “Open” when it detects movement and “Closed” when it doesn’t; in that case, you would typically want to configure the sensor to alarm on “Open” or when motion is detected.

The Alarm And Clear State Of Your Switch Sensor

To determine the alarm and clear state of your sensor, you may either refer to its Installation Note or see for yourself by physically connecting your sensor to your Room Alert and then observing what happens to its circuit state in the Status page.

After you connect your sensor and before you configure it in the Settings page, follow these steps:

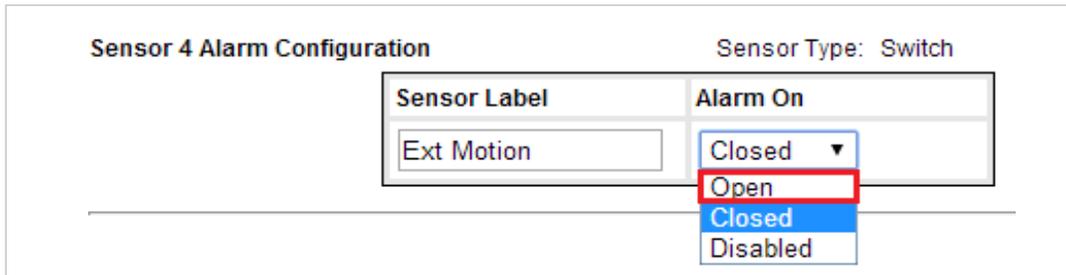
1. Click the **Status** tab at the top of your screen in the web interface.
2. Notice the current status of “Channel 4: Switch Sensor.” It should show the normal state, which in this case is “Closed.” (Ignore the red color coding for now. We haven’t configured the sensor yet, so it’s still set at the default: alarm on closed.)
3. Now put the sensor into an alarm state. To put a Motion Sensor into an alarm state, for example, wave your hand in front of it.
4. Look at the circuit state at the same time. You should see it switch to the opposite of normal. In this example, if normal is “Closed,” you see the alarm state as “Open.” (Again, ignore the green color coding for now.)



Room Alert 4E

Now that you've checked what "Open" and "Closed" mean on your switch sensor, navigate to **Settings** → **Sensors** to configure your options in "Sensor 4 Alarm Configuration":

1. In "Sensor Label," you may leave the default, "Sensor 4," or enter something more descriptive, such as "Ext Motion."
2. In "Alarm On," select the alarm state ("Open" or "Closed"), which you determined on the "Status" page. In our example, the alarm state is "Open."



Sensor 4 Alarm Configuration Sensor Type: Switch

Sensor Label	Alarm On
Ext Motion	Closed ▼
	Open
	Closed
	Disabled

3. Click **Accept Changes** at the bottom of your screen to temporarily save your settings. You may now navigate to another screen; however, if you close the web interface before the next step, you will lose your changes.
4. Click **Save Settings** in the navigation bar to the left of your screen. Your Room Alert will automatically reboot and commit your changes.

TIP



If you don't connect a switch sensor to your Room Alert 4E, choose **Disabled** from the "Alarm On" drop-down menu to avoid confusion or false alerts.

Advanced Sensor Configuration

Check **Trigger Alarm If Sensor Is Disconnected?** if you want to receive an alert if the external digital sensor becomes disconnected from the Room Alert 4E. This check box is blank by default.



Advanced Sensor Configuration

Trigger Alarm If Sensor Is Disconnected?

Ping Options

You may configure up to eight IP addresses to ping from your Room Alert 4E in this screen. Room Alert will send a ping to those addresses to check if the host is reachable. If the host is up, the ping will return as successful and register a normal state; if the host is down, or Room Alert cannot reach it, the ping will return as failed and register an alarm state.

Status	Settings	Help	About																				
MAC Address: XX-XX-XX-XX-XX-XX		Version: X.X.X																					
Ping Settings																							
Ping Settings																							
Retry Count <input type="text" value="1"/>		Ping Timeout <input type="text" value="1"/>																					
Ping Host Information																							
<table border="1"> <thead> <tr> <th>No.</th> <th>Host Address</th> <th>No.</th> <th>Host Address</th> </tr> </thead> <tbody> <tr> <td>1</td> <td><input type="text" value="0.0.0.0"/></td> <td>2</td> <td><input type="text" value="0.0.0.0"/></td> </tr> <tr> <td>3</td> <td><input type="text" value="0.0.0.0"/></td> <td>4</td> <td><input type="text" value="0.0.0.0"/></td> </tr> <tr> <td>5</td> <td><input type="text" value="0.0.0.0"/></td> <td>6</td> <td><input type="text" value="0.0.0.0"/></td> </tr> <tr> <td>7</td> <td><input type="text" value="0.0.0.0"/></td> <td>8</td> <td><input type="text" value="0.0.0.0"/></td> </tr> </tbody> </table>				No.	Host Address	No.	Host Address	1	<input type="text" value="0.0.0.0"/>	2	<input type="text" value="0.0.0.0"/>	3	<input type="text" value="0.0.0.0"/>	4	<input type="text" value="0.0.0.0"/>	5	<input type="text" value="0.0.0.0"/>	6	<input type="text" value="0.0.0.0"/>	7	<input type="text" value="0.0.0.0"/>	8	<input type="text" value="0.0.0.0"/>
No.	Host Address	No.	Host Address																				
1	<input type="text" value="0.0.0.0"/>	2	<input type="text" value="0.0.0.0"/>																				
3	<input type="text" value="0.0.0.0"/>	4	<input type="text" value="0.0.0.0"/>																				
5	<input type="text" value="0.0.0.0"/>	6	<input type="text" value="0.0.0.0"/>																				
7	<input type="text" value="0.0.0.0"/>	8	<input type="text" value="0.0.0.0"/>																				
<input type="button" value="Accept Changes"/>																							

Navigate to **Settings** → **Ping Options** to open the Ping Settings screen.

1. In “Retry Count,” you may enter the number connection attempts Room Alert will make before an alarm condition is generated. The default is 1.
2. In “Ping Timeout,” you may enter the number of seconds to wait for a reply to the connection attempt.
3. In the “Ping Host Information” table, you may enter up to 8 IP Addresses in the “Host Address” column in the following format: xxx.xxx.xxx.xxx. The default is 0.0.0.0.

Ping Host Information			
No.	Host Address	No.	Host Address
1	<input type="text" value="192.168.2.50"/>	2	<input type="text" value="0.0.0.0"/>
3	<input type="text" value="0.0.0.0"/>	4	<input type="text" value="0.0.0.0"/>
5	<input type="text" value="0.0.0.0"/>	6	<input type="text" value="0.0.0.0"/>
7	<input type="text" value="0.0.0.0"/>	8	<input type="text" value="0.0.0.0"/>

Room Alert 4E

4. Click **Accept Changes** at the bottom of your screen to temporarily save your settings. You may now navigate to another screen; however, if you close the web interface before the next step, you will lose your changes.
5. Click **Save Settings** in the navigation bar to the left of your screen. Your Room Alert will automatically reboot and commit your changes.

Alarm Options

Navigate to **Settings** → **Alarm Options** to open the Alarm Options screen. Here you may configure devices connected through the custom Light Tower & Relay Switch Sensor port.

Status	Settings	Help	About
MAC Address: XX-XX-XX-XX-XX-XX		Version: X.X.X	
Alarm Options			
Light Tower / Relay Configuration			
Connected Light Tower / Relay <input type="text" value="No Light Tower / Relay Connected"/>			
Alarm Clear Action <input type="checkbox"/> Allow Light Tower / Relay Off On Alarm Clear			
<input type="button" value="Accept Changes"/>			
<hr/>			
Network			
SMTP Email			
SNMP			
Sensors			
Ping Options			
Alarm Options			
Security			
Advanced			
<hr/>			
<input type="button" value="Save Settings"/>			
<input type="button" value="Reset Defaults"/>			

NOTE

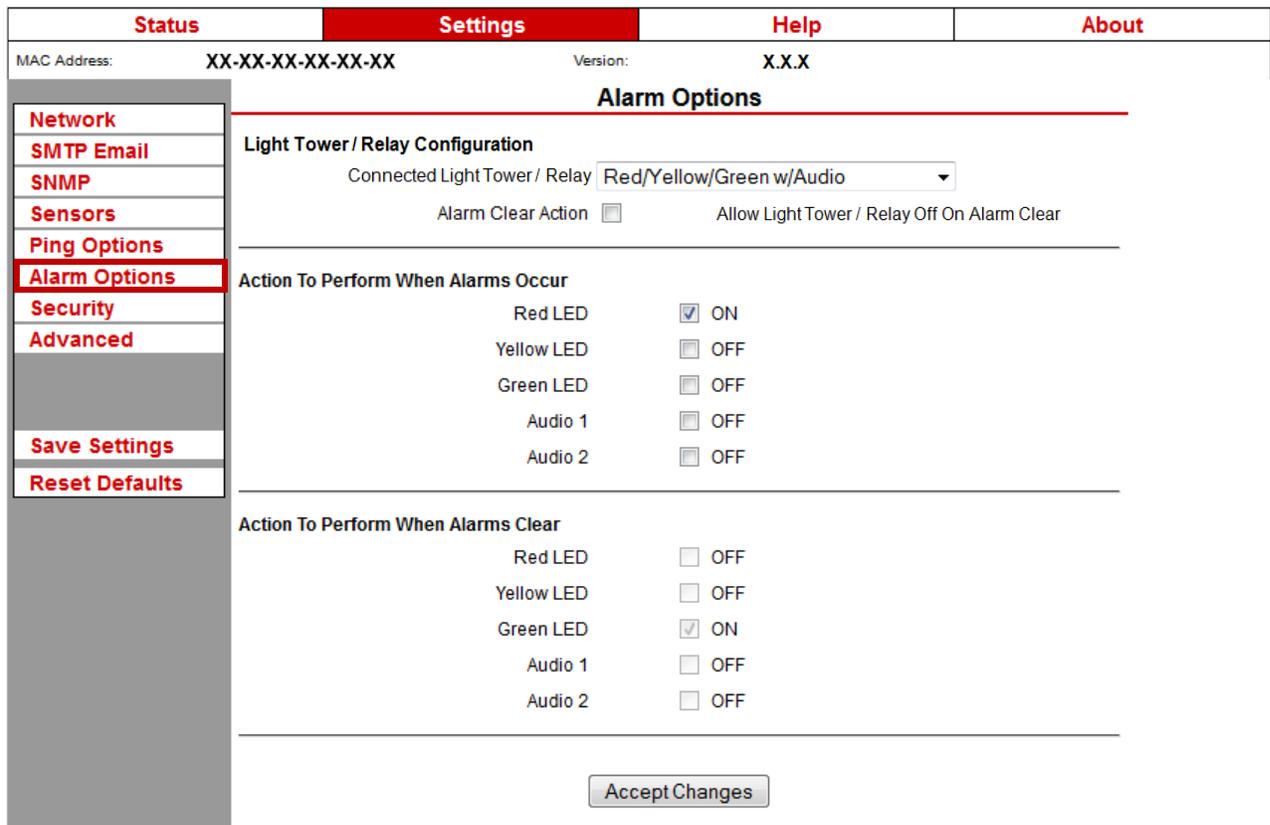


For more information about AVTECH sensors and accessories, please refer to the [Appendix](#) at the back of this manual or visit the [Sensors & Accessories](#) sections of AVTECH.com.

1. In “Connected Light Tower / Relay,” select from the 4 choices in the drop-down menu. In this example, we’ll be configuring a Light Tower w/Audio.



The sample screen below shows the options for a Light Tower w/Audio before it has been configured.



The options on the Alarm Options screen vary somewhat depending on the device you select from this drop-down list.

2. If you want to enable actions when your Room Alert 4E returns to a “clear” state, click **Alarm Clear Action**. You may pick the specific “clear” actions in Step 4 below.

Room Alert 4E

Alarm Clear Action <input checked="" type="checkbox"/>	Allow Light Tower / Relay Off On Alarm Clear
--	--

3. In “Action To Perform When Alarms Occur,” you may leave the default, “OFF,” for each item or click the check box to select “ON.” (Red LED ON is the default.)

In the example below, the Light Tower’s red LED and audible alarm 1 turn on.

Action To Perform When Alarms Occur	
Red LED	<input checked="" type="checkbox"/> ON
Yellow LED	<input type="checkbox"/> OFF
Green LED	<input type="checkbox"/> OFF
Audio 1	<input checked="" type="checkbox"/> ON
Audio 2	<input type="checkbox"/> OFF

4. In “Action To Perform When Alarms Clear,” you may leave the default, “OFF,” for each item or click the check box to select “ON.” (Green LED ON is the default).

In the example below, the red LED and audible alarm 1 from Step 3 shuts off; the green LED turns on.

Action To Perform When Alarms Clear	
Red LED	<input type="checkbox"/> OFF
Yellow LED	<input type="checkbox"/> OFF
Green LED	<input checked="" type="checkbox"/> ON
Audio 1	<input type="checkbox"/> OFF
Audio 2	<input type="checkbox"/> OFF

5. Click **Accept Changes** at the bottom of your screen to temporarily save your settings. You may now navigate to another screen; however, if you close the web interface before the next step, you will lose your changes.
6. Click **Save Settings** in the navigation bar to the left of your screen. Your Room Alert will automatically reboot and commit your changes.

Security

By default, the Room Alert 4E does not require log in credentials; you may, however, create a username and password for your Room Alert 4E for extra security.

Navigate to **Settings** → **Security** to open the Security Settings screen.

Status	Settings	Help	About
MAC Address:	XX-XX-XX-XX-XX-XX	Version:	X.X.X
Security Settings			
Network	Web Username <input type="text"/>		
SMTP Email	Web Password <input type="text"/>		
SNMP	Confirm Password <input type="text"/>		
Sensors	<input type="button" value="Accept Changes"/>		
Ping Options			
Alarm Options			
Security			
Advanced			
<hr/>			
Save Settings			
Reset Defaults			

1. In “Web Username,” you may create a user name of up to 8 alphanumeric characters for your Room Alert 4E.
2. In “Web Password,” you may create a log in password of up to 15 alphanumeric characters.

**TIP**

Use only letters and numbers in your log in username and password—no special characters, please.

3. Re-enter the password in the “Confirm Password” field to verify.
4. Click **Accept Changes** at the bottom of your screen to temporarily save your settings. You may now navigate to another screen; however, if you close the web interface before the next step, you will lose your changes.
5. Click **Save Settings** in the navigation bar to the left of your screen. Your Room Alert will automatically reboot and commit your changes.

NOTE

If you forget your password, you can reset your Room Alert 4E settings to the factory defaults. Please see the [How To Reset Room Alert 4E To Factory Defaults](#) section of this manual for more information. There is no other alternative.

Advanced

You may configure a number of advanced options here, including default temperature scale, Status screen defaults, Device ManagerR “Push,” time & date, and trace output.

Navigate to **Settings** → **Advanced** to open the Advanced Settings screen.

Status	Settings	Help	About
MAC Address: XX-XX-XX-XX-XX-XX		Version: X.X.X	
Advanced Settings			
Network	Temperature Scale Configuration		
SMTP Email	<input checked="" type="radio"/> Fahrenheit <input type="radio"/> Celsius		
SNMP	<hr/>		
Sensors	Status Page Configuration		
Ping Options	Refresh Rate (seconds) <input type="text" value="60"/>		
Alarm Options	HTTP Port <input type="text" value="80"/>		
Security	Display All Sensors <input checked="" type="radio"/> Connected Sensors <input type="radio"/>		
Advanced	<hr/>		
Save Settings	Device ManagerR Push Configuration		
Reset Defaults	Enable Device ManagerR Push <input type="checkbox"/>		
	Server IP Address <input type="text" value="0.0.0.0"/>		
	Server Port <input type="text" value="8080"/>		
	Push Interval <input type="text" value="1 Minute"/>		
	<hr/>		
	Time & Date Configuration		
	Time Zone (GMT) Greenwich Mean Time (London, Lisbon) ▾		
	Time Display 24 hour ▾		
	Time Format MM/DD/YY Hour:Minute:Second ▾		
	Daylight Savings <input type="checkbox"/> Adjust For Daylight Saving Time (+1 hr)		
	Time Server IP <input type="text" value="198.82.1.201"/>		
	Time Server Auto Refresh <input type="text" value="24 Hours"/>		
	<hr/>		
	Trace Configuration		
	Enable Tracing <input type="checkbox"/>		
	Trace Port <input type="text" value="143"/>		
	<input type="button" value="Accept Changes"/>		

Temperature Scale Configuration

You may set the default temperature scale for your Room Alert 4E here by selecting “Fahrenheit” or “Celsius.” Fahrenheit is the default.

Temperature Scale Configuration

Fahrenheit Celsius

Status Page Configuration

You may set defaults for the Status screen here.

Status Page Configuration

Refresh Rate (seconds)

HTTP Port

Display All Sensors Connected Sensors

1. In “Refresh Rate (seconds),” enter the number of seconds you would like the Status screen to refresh at. You may enter a value from 5 to 65535. The default is 60 seconds (i.e., every 1 minute).
2. In “HTTP Port,” you may change the port number your web browser uses to connect to your Room Alert’s web interface. It uses port 80 by default.
3. In “Sensors To Display,” you may choose “All Sensors” or “Connected Sensors.” Selecting “Connected Sensors” will hide the digital sensor channel(s) if there is no digital sensor connected.
4. Click Accept **Changes** at the bottom of your screen to temporarily save your settings. You may now navigate to another screen; however, if you close the web interface before the next step, you will lose your changes.
5. Click **Save Settings** in the navigation bar to the left of your screen

Device ManageR Push Configuration

By default, Device ManageR queries your Room Alert 4E for sensor values at defined intervals. However, you may configure your Room Alert 4E to proactively send sensor updates to Device ManageR by enabling “Device ManageR Push.”

Enabling “Device ManageR Push” is an advantage for two reasons:

- Your Room Alert 4E can communicate with Device ManageR without triggering any firewalls between the two. Firewalls typically allow out-going connections while blocking in-coming connections.

Room Alert 4E

- Your Room Alert 4E can immediately send an update to Device Manager when it detects an alarm, regardless of any intervals you have configured either in this section or in the Device Manager discovery interval.

Device Manager Push Configuration
Enable Device Manager Push
Server IP Address
Server Port
Push Interval

To enable Push to Device Manager from your Room Alert 4E:

1. Select Enable Device Manager Push.
2. In “Server IP Address,” enter the IP address of Device Manager’s host system.
3. In “Server Port,” enter the port Device Manager uses. The default is 8080.
4. In “Push Interval,” choose the number of minutes you would like between pushes from the drop-down list.
5. Click **Accept Changes** at the bottom of your screen to temporarily save your settings. You may now navigate to another screen; however, if you close the web interface before the next step, you will lose your changes.
6. Click **Save Settings** in the navigation bar to the left of your screen. Your Room Alert will automatically reboot and commit your changes.

Time & Date Configuration

You may set the time and date defaults for your Room Alert 4E here.

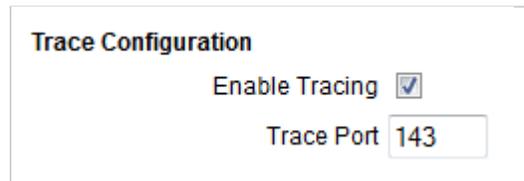
Time & Date Configuration
Time Zone
Time Display
Time Format
Daylight Savings Adjust For Daylight Saving Time (+1 hr)
Time Server IP
Time Server Auto Refresh

1. In “Time Zone,” select your time zone from the drop-down list. Greenwich Mean Time (GMT) is the default.
2. In “Time Display,” you may select the 12- or 24-hour format from the drop-down list. The 24-hour setting is the default.
3. In “Time Format,” you may select either the MM/DD/YY and DD/MM/YY date format from the drop-down list. Month first is the default.
4. Select “Daylight Savings” if you would like your Room Alert 4E time setting to compensate by +1 hour for daylight savings time.
5. In “Time Server IP,” you may leave the default internet time server address, 198.82.1.201, or enter another time server IP address.
6. In “Time Server Auto Refresh,” you may select how often Room Alert 4E automatically synchronizes with your time server.
 - You may leave the default, “24 Hours,” or choose another interval, as frequent as 10 minutes, from the drop-down list. You may also disable time synchronization by selecting **Disabled** from the drop-down list.
 - You may manually synchronize the time by clicking **Update Now**. Clicking this button does not affect the “Auto Refresh” interval.
7. Click **Accept Changes** at the bottom of your screen to temporarily save your settings. You may now navigate to another screen; however, if you close the web interface before the next step, you will lose your changes.
8. Click **Save Settings** in the navigation bar to the left of your screen. Your Room Alert will automatically reboot and commit your changes.

Room Alert 4E

Trace Configuration

You may configure your Room Alert 4E for trace output, which is useful for troubleshooting. Trace output shows the communication between your Room Alert 4E and your mail server, as well as other information, such as the current firmware version, IP address, MAC address, and requests to web pages.



The screenshot shows a configuration window titled "Trace Configuration". It contains two settings: "Enable Tracing" with a checked checkbox, and "Trace Port" with a text input field containing the value "143".

To configure trace output:

1. Select **Enable Tracing**.
2. In “Trace Port,” you may leave the default port, 143, or enter another port number.
3. Click **Accept Changes** at the bottom of your screen to temporarily save your settings. You may now navigate to another screen; however, if you close the web interface before the next step, you will lose your changes.
4. Click **Save Settings** in the navigation bar to the left of your screen. Your Room Alert will automatically reboot and commit your changes.

You may then use any standard telnet or terminal application to view the trace on the configured port.

Help

Click the **Help** tab to open the Room Alert 4E Help screen, which provides helpful links and contact information for AVTECH support resources.

Room Alert™ Advanced Computer Room
Environment Monitoring, Alerting
& Automatic Corrective Action

Status **Settings** **Help** **About**

Room Alert 4E Help

Room Alert 4E
Firmware vX.X.X
Released 18 December 2013
[Click Here To Check For Updates](#)

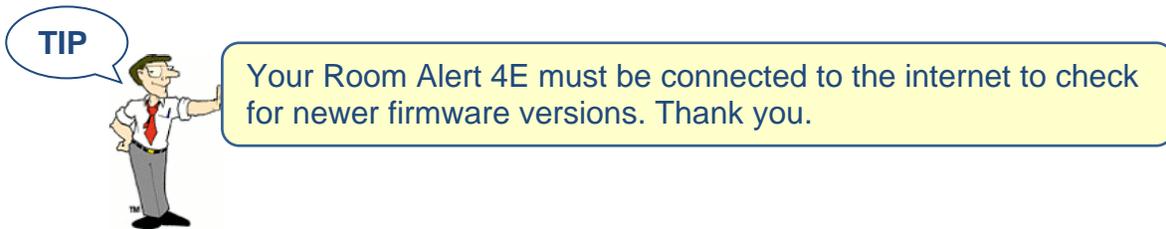
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401.628.1600 (International)
Mon-Fri 9 AM - 5 PM EST

You may find the version number and release date of the firmware that is installed on your Room Alert 4E on this screen. To check if your Room Alert 4E has the most current version, select **Click Here To Check For Updates**.



Room Alert 4E

About

Click the **About** tab to open the Room Alert 4E About screen, which provides helpful links and contact information for AVTECH sales and support resources.

Room Alert 4E™ Advanced Computer Room Environment Monitoring, Alerting & Automatic Corrective Action

Status **Settings** **Help** **About**

Room Alert 4E About

Room Alert 4E
Firmware vX.X.X
Released 18 December 2013
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401.628.1600 (International)

Website [AVTECH.com](#)
[RoomAlert.com](#)
[EnvironmentMonitor.com](#)

You may find the version number and release date of the firmware that is installed on your Room Alert 4E on this screen. To check if your Room Alert 4E has the most current version, select **Click Here To Check For Updates**.

TIP



Your Room Alert 4E must be connected to the internet to check for newer firmware versions. Thank you.

Updating & Troubleshooting Your Room Alert 4E

How To Download Firmware & Software Updates From [AVTECH.com](https://www.avtech.com)

Software and firmware updates are available to licensed customers with current “Maintenance Support & Update Service” (MSUS). To download:

1. Go to [AVTECH.com/Downloads](https://www.avtech.com/Downloads), or click **Downloads** on the menu bar at the top of the screen at [AVTECH.com](https://www.avtech.com).
2. In the Downloads page, enter the following user account information in the “Customer Access” box:
 - Your username, which is the email address we have on file for you.
 - Your organization’s password.

TIP



Your user account information (download username & password) was emailed to you when you purchased your Room Alert 4E. This can be emailed to you again upon request.

3. Click **Login**.
4. Once you’ve logged in, you’ll see which software and firmware products you are currently enabled for. To download, click the **Download Now** button next to the appropriate product.

How To Update Room Alert 4E’s Firmware

5. Download and save the most recent firmware update for Room Alert 4E from your customer account at [AVTECH.com/Downloads](https://www.avtech.com/Downloads).
6. Open AVTECH’s Device ManageR. (If you don’t already have it installed, download it from your customer account.)
7. Select the Room Alert 4E option under the Device Status tab in the navigation bar to the left of your screen.
8. Click the **Update Firmware** link shown under the product name (or the **Update Firmware** button shown at the top of the screen).
9. Then follow the on-screen instructions to complete the update.



IMPORTANT: Be sure that there are no web browsers accessing your Room Alert 4E monitor from anywhere on your network before uploading the firmware as this could cause the firmware update to be incomplete or become corrupted.

How To Discover Room Alert 4E When Your Network Blocks UDP Broadcasts

If your network blocks UDP broadcast packets on port 30718, AVTECH’s Device ManagerR might not be able to automatically locate the Room Alert 4E monitor.

To manually discover your Room Alert 4E, use the Advanced Discovery option in AVTECH’s Device ManagerR Application:

1. Open AVTECH’s Device ManagerR. (If you don’t already have it installed, download it from your customer account at AVTECH.com/Downloads.)
2. Navigate to **Advanced Discovery** under the Device Status tab in the navigation bar to the left of your screen.
3. In the “Advanced Discovery Options” dialog box, click **Manually Add Device(s) Via IP Address**.
4. Enter your Room Alert 4E’s IP address or the range of IP addresses assigned to DHCP devices on your network.
5. Click **Begin Scan**, which initiates a TCP scan on port 30718.
6. When the scan is complete, click **Close Window** and your Room Alert 4E should be automatically added to the list of discovered devices.

How To Reset Room Alert 4E To Factory Defaults

You may need to reset your Room Alert 4E to factory defaults if:

- You are moving it to a new location and it must be reconfigured.
- It has been assigned invalid network settings and is therefore inaccessible.
- You have lost your Room Alert 4E’s password.

If your Room Alert 4E is accessible on the network, to reset it to factory defaults:

1. Navigate to **Settings** in the web interface.

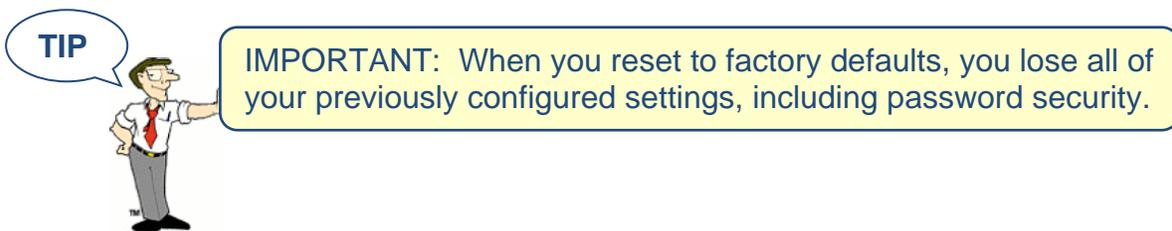
2. Click **Reset Defaults** in the navigation bar to the left.
3. Click **Yes** when prompted with “Are you sure you want to Reset Factory Defaults?”



4. Your Room Alert 4E will automatically reboot and attempt to obtain an IP address via DHCP.
5. To automatically discover your Room Alert 4E on your network, open AVTECH’s Device Manager. (If you don’t already have it installed, download it from your customer account at AVTECH.com/Downloads.)

If your Room Alert 4E is not accessible on the network, to reset it to factory defaults:

1. With your Room Alert 4E connected to the network and powered on, press and hold the reset button for at least 10 seconds until the left LED over the network jack turns off and then on again.
2. Your Room Alert 4E will automatically reboot and attempt to obtain an IP address via DHCP.
3. To automatically discover your Room Alert 4E on your network, open AVTECH’s Device Manager. (If you don’t already have it installed, download it from your customer account at AVTECH.com/Downloads.)

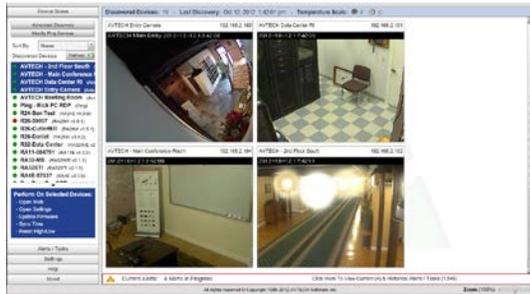


Introduction To AVTECH's Device Manager

Device Manager is AVTECH's all-in-one software solution for the discovery, management, monitoring, alerting, logging, graphing, automatic action and more of AVTECH's physical environment monitoring hardware and Axis network cameras.

Manage Unlimited Room Alert & TemPageR Monitors

- ✓ Control all of your Room Alert and TemPageR units from a single web browser interface, accessible from anywhere by internet.
- ✓ Take automatic corrective actions, run scripts and notify unlimited contacts on the device of their choice.
- ✓ Use dashboard widgets to customize your interface and display the information most important to you in real time.
- ✓ Automatically log and graph all of your sensor data for a comprehensive history of environmental conditions. Control the log file size automatically.

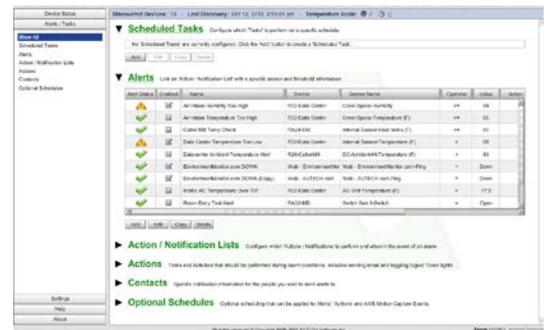


Manage Unlimited Network Cameras

- ✓ View all of your Axis camera displays simultaneously—and control who has access!
- ✓ Automatically email Axis camera snapshots in response to alert conditions.
- ✓ Customize your alerts with links to your Axis cameras for one-click access to real-time video.

Expand Device Manager's Functionality With Plugins

- ✓ Send customized reports with advanced statistics according to a schedule or in response to alert conditions. Modify according to each user's needs.
- ✓ Log off, shut down, reboot and execute commands on Windows and Linux / Unix systems across your network.
- ✓ Automatically text or call contacts with alerts using a text, voice or GSM (satellite) modem.



A license for Device Manager is included FREE with the purchase of any AVTECH environment monitor. Download it now from your customer account at AVTECH.com/Downloads.

What are Digital vs Switch Sensors?

Digital Sensors are those that monitor in real-time to provide digital values that can be viewed through a web or application interface, passed in alert notifications or logged for creating charts and graphs. Common digital sensors include Temperature, Outdoor Temperature, Fluid Temperature, and Temperature & Humidity.

Switch Sensors are those that do not provide real-time values and instead present their real-time status as being in or out of a specific state (i.e. on / off, make / break, open / closed). These sensors have a built-in circuit that changes status as a threshold is passed, indicating an alarm condition.

\$40
BEST SELLER

Digital Temperature Sensor



TMP-SDT-SEN (\$40)
TMP-DT50-SEN (\$55)
TMP-DT100-SEN (\$80)

- Real-time temperature sensor.
- Temperature range: -67 – 257° F, -55 – 125° C.
- Compatible with Room Alert 32E/W, 26E/W, 24E, 12E, 11E, 7E, 4E, 3E, 3W, TemPageR 4E & 3E, 3W, WiSH & WiSPR.
- Options include sensor with attached cables of 25', 50' and 100' length. Max cable distance is 100'.

INCLUDES: Digital Temperature Sensor With 25' RJ-11 Cable & Installation Note.

\$55
OUTDOOR

Digital Outdoor Temperature Sensor



TMP-DOT-SEN (\$55)
TMP-DOT50-SEN (\$70)
TMP-DOT100-SEN (\$95)

- Real-time temperature sensor.
- Temperature range: -67 – 257° F, -55 – 125° C.
- Silicon coating offers extra resilience for monitoring outdoors or in other harsh environments.
- Compatible with Room Alert 32E/W, 26E/W, 24E, 12E, 11E, 7E, 3E, 3W, TemPageR 4E & 3E, WiSH & WiSPR.
- Options include sensor with attached cables of 25', 50' and 100' length. Max cable distance is 100'.

INCLUDES: Digital Outdoor Temperature Sensor With 25' RJ-11 Cable & Installation Note.

\$90
LAB READY

Digital Fluid Temperature Sensor



TMP-DFT-SEN (\$90)
TMP-DFT50-SEN (\$105)
TMP-DFT100-SEN (\$130)

- Real-time fluid temperature sensor.
- Temperature range: -67 – 257° F, -55 – 125° C.
- Perfect for cooler or freezer monitoring of food, medicines and fluid temperature.
- Compatible with Room Alert 32E/W, 26E/W, 24E, 12E, 11E, 7E, 4E, 3E, 3W, TemPageR 4E & 3E, WiSH & WiSPR.
- Options include sensor with attached cables of 25', 50' and 100' length. Max cable distance is 100'.

INCLUDES: Digital Fluid Temperature Sensor With 25' RJ-11 Cable & Installation Note.

\$90
BEST SELLER

Digital Temperature & Humidity Sensor



RMA-DTH-SEN (\$90)
RMA-DTH50-SEN (\$105)
RMA-DTH100-SEN (\$130)

- Real-time temperature and humidity sensor.
- Temperature range: -67 – 257° F, -55 – 125° C.
- Relative humidity range: 5 to 95% non-condensing.
- Compatible with Room Alert 32E/W, 26E/W, 24E, 12E, 11E, 4E, 3E, 3W, WiSH & WiSPR.
- Options include sensor with attached cables of 25', 50' and 100' length. Max cable distance is 100'.

INCLUDES: Digital Temperature & Humidity Sensor With 25' RJ-11 Cable & Installation Note.

\$90
NEW

Digital Temperature & Analog Sensor



RMA-DTA-SEN

- Real-time temperature and analog sensor port.
- Temperature range: -67 – 257° F, -55 – 125° C.
- Outputs 0 - 5 VDC in real-time to analog sensor.
- By connecting an external analog sensor, such as a Current Loop, the user can track efficiency.
- Max sensor cable distance up to 100', includes 25'.
- Compatible with Room Alert 32E/W, 24E, 12E, 4E, 3E & 3W.

INCLUDES: Digital Temperature & Analog Sensor With 25' RJ-11 Cord & Installation Note.

\$55
BEST SELLER

Main Power Sensor



RMA-PS1-SEN

- Real-time main power on/off status.
- Monitors main, UPS or single phase power.
- Max sensor cable distance up to 900', includes 25'.
- Compatible with Room Alert 32E/W, 26E/W, 24E, 12E, 11E, 7E, 4E, 3E, 3W, WiSH & WiSPR.

INCLUDES: Main Power Sensor With 25' Cable, 5V Power Adapter & Installation Note.

\$85
BEST VALUE

Mini UPS & Power Sensor (MUPS)



RMA-MUPS-SEN

- Real-time main power on/off status.
- Monitors main, UPS or single phase power.
- Provides battery backup power for 15 minutes or more for any 5V device.
- Max sensor cable distance up to 900', includes 25'.
- Plugs in-line with AVTECH's 5V Power Adapter.
- Compatible with Room Alert 32E/W, 26E/W, 24E, 12E, 11E, 7E, 4E, 3E, 3W, WiSH & WiSPR.

INCLUDES: Mini UPS & Power Sensor With 25' Cable & Installation Note.

* More Sensors, Cameras, Packages & Accessories Online.

\$255
BEST SELLER

Flood Sensor w/8' Cable



RMA-F008-SEN

- Real-time recognition of water/flood anywhere along the length of the patented flood cable.
- 8' Flood Cable with 25' RJ-11 leader cable.
- Alert triggered when sensor is activated or power lost.
- Flood cable can be extended by 8' lengths.
- Compatible with Room Alert 32E/W, 26E/W, 24E, 12E, 11E, 7E, 4E, 3E, 3W, WiSH & WiSPR.

INCLUDES: Flood Sensor With 8' Flood Cable & 25' RJ-11 Leader Cable, 25' Sensor Cable, 5V Power Adapter, Mounting Screws & Installation Note.

\$125

Flood Sensor 8' Cable Extension



RMA-008CE-SEN

- Real-time recognition of water/flood anywhere along the length of the patented flood cable.
- Can be extended by adding additional 8' extensions.
- Designed to extend the length of the AVTECH Flood Sensor Cable to several hundred feet.
- **Requires connection in-line between AVTECH's Flood Sensor (internal on Room Alert 26E/W) and Flood Sensor Cable.**

INCLUDES: 8' Flood Cable Extension & Installation Note.

\$380
BEST VALUE

Flood Sensor w/24' Cable



RMA-F024-SEN

- Real-time recognition of water/flood anywhere along the length of the patented flood cable.
- 24' Flood Cable with 25' RJ-11 leader cable.
- Alert triggered when sensor is activated or power lost.
- Flood cable can be extended by 8' lengths.
- Compatible with Room Alert 32E/W, 26E/W, 24E, 12E, 11E, 7E, 4E, 3E, 3W, WiSH & WiSPR.

INCLUDES: Flood Sensor With 24' Flood Cable & 25' RJ-11 Leader Cable, 25' Sensor Cable, 5V Power Adapter, Mounting Screws & Installation Note.

\$205
HEAVY DUTY

Flood Sensor (Spot)



RMA-FS2-SEN

- Real-time recognition of flood/water under pod.
- Specially designed to interface with Room Alert.
- Powered by 9V Alkaline battery (included).
- Max sensor cable distance up to 900', includes 25'.
- Compatible with Room Alerts 32E/W, 26E/W, 24E, 12E, 11E, 7E, 4E, 3E, 3W, WiSH & WiSPR.

INCLUDES: Flood Sensor (Spot) With 25' Cable, 9V Alkaline Battery & Installation Note.

\$275
NEW

Extreme Low Temperature Sensor



RMA-ET1-SEN

- Real-time low extreme temperature sensor.
- Temperature range: -328° – 32° F, -200° – 0° C
- Analog, 1-5 VDC.
- Sensor standardization Dn IEC 751 Class B.
- Compatible with Room Alert 32E/W, 12E & Digital Temperature & Analog Sensor.

INCLUDES: Extreme Temperature Sensor (High or Low), 10' Thermocouple Coil, 18V Power Adapter, 25' Speaker Wire Cable & Installation Note.

\$275
NEW

Extreme High Temperature Sensor



RMA-ET2-SEN

- Real-time high extreme temperature sensor.
- Temperature range: -40° – 743° F, -40° – 395° C
- Analog, 1-5 VDC.
- Sensor standardization Dn IEC 751 Class B.
- Compatible with Room Alert 32E/W, 12E & Digital Temperature & Analog Sensor.

INCLUDES: Extreme Temperature Sensor (High or Low), 10' Thermocouple Coil, 18V Power Adapter, 25' Speaker Wire Cable & Installation Note.

\$85
NEW

Current Loop 1 (0-50A)



RMA-CL1-SEN

- Monitors electrical current flowing through a single-phase powered cable.
- Monitor output: 0-10A, 0-20A & 0-50A.
- Connects via Room Alert Analog Sensor Port or Digital Temperature & Analog Sensor.
- Operates in 0 - 95% RH, non-condensing environment.
- Low-voltage 2-wire cable connection.
- Compatible with Room Alert 32E/W, 12E & Digital Temperature & Analog Sensor.

INCLUDES: Current Loop 1 With 25' Cable, Mounting Screws & Installation Note.

\$85
NEW

Current Loop 2 (0-250A)



RMA-CL2-SEN

- Monitors electrical current flowing through a single-phase powered cable.
- Monitor output: 0-100A, 0-200A & 0-250A.
- Connects via Room Alert Analog Sensor Port or Digital Temperature & Analog Sensor.
- Operates in 0 - 95% RH, non-condensing environment.
- Low-voltage 2-wire cable connection.
- Compatible with Room Alert 32E/W, 12E & Digital Temperature & Analog Sensor.

INCLUDES: Current Loop 2 With 25' Cable, Mounting Screws & Installation Note.

* More Sensors, Cameras, Packages & Accessories Online.

\$195
NEW

Water Tank Level Sensor



RMA-WTL1-SEN (NC)
RMA-WTL2-SEN (NO)

- Real-time recognition of water level rise or fall past an established level. Use to indicate leaks, flooding or need to refill water tank.
- Max sensor cable distance up to 900', includes 25'.
- Available in Normally Closed (NC) and Normally Open (NO) models.
- Compatible with Room Alert 32E/W, 26E/W, 24E, 12E, 11E, 7E, 4E, 3E, 3W, WiSH & WiSPR.

INCLUDES: Water Tank Level Sensor With 25' Cable & Installation Note.

\$225
NEW

Fuel Tank Level Sensor



RMA-FTL1-SEN (NC)
RMA-FTL2-SEN (NO)

- Real-time recognition of fuel level rise or fall past an established level. Use to indicate leaks, overflow or need to refill fuel tank.
- Max sensor cable distance up to 900', includes 25'.
- Available in Normally Closed (NC) and Normally Open (NO) models.
- Compatible with Room Alert 32E/W, 26E/W, 24E, 12E, 11E, 7E, 4E, 3E, 3W, WiSH & WiSPR.

INCLUDES: Fuel Tank Level Sensor With 25' Cable & Installation Note.

\$40
BEST SELLER

Air Flow 1 Sensor (NC)



RMA-AF1-SEN

- Real-time recognition of air flow stop/start.
- Use in HVAC duct, under raised floors, or near fan.
- Max sensor cable distance up to 900', includes 25'.
- Recommended for IT installations.
- Compatible with Room Alert 32E/W, 26E/W, 24E, 12E, 11E, 7E, 4E, 3E, 3W, WiSH & WiSPR.

INCLUDES: Air Flow 1 Sensor (Normally Closed) With 25' Cable & Installation Note.

\$40

Air Flow 2 Sensor (NO)



RMA-AF2-SEN

- Real-time recognition of air flow stop/start.
- Use in HVAC duct, under raised floors, or near fan.
- Max sensor cable distance up to 900', includes 25'.
- Compatible with Room Alert 32E/W, 26E/W, 24E, 12E, 11E, 7E, 4E, 3E, 3W, WiSH & WiSPR.

INCLUDES: Air Flow 2 Sensor (Normally Open) With 25' Cable & Installation Note.

\$45

Motion Sensor



RMA-MOT2-SEN

- Detect motion up to approximately 35' with 84° angle.
- Alert triggered when sensor is activated.
- Powered by 12V power adapter (included).
- Max sensor cable distance up to 900', includes 25'.
- Compatible with Room Alert 32E/W, 26E/W, 24E, 12E, 11E, 7E, 4E, 3E, 3W, WiSH & WiSPR.

INCLUDES: Motion Sensor With 25' Cable, 12V Power Adapter & Installation Note.

\$25

Room Entry Sensor



RMA-RE1-SEN

- Easy recognition of door/cabinet open or closed status.
- Standard use on door or window and adjoining frame.
- Max sensor cable distance up to 900', includes 25'.
- **Requires connection to Sound, Light & Entry (SLE) unit for alert on momentary status change.**
- Compatible with Room Alert 32E/W, 26E/W, 24E, 12E, 11E, 7E, 4E, 3E, 3W, WiSH & WiSPR.

INCLUDES: Room Entry Sensor With 25' Cable & Installation Note.

\$185
HEAVY DUTY

Panic Button 1



RMA-PB1-SEN

- Designed to be used as an emergency alarm to provide warning where someone is working and may need help or conditions reach an alarm state.
- Palm or foot size, locks in place, pull to release.
- NEMA rated for weather and industrial use.
- Compatible with Room Alert 32E/W, 26E/W, 24E, 12E, 11E, 7E, 4E, 3E, 3W, WiSH & WiSPR.

INCLUDES: Panic Button 1 With 25' Cable & Installation Note.

\$75

Smoke Sensor w/Escape Light



RMA-SS1-SEN

- Real-time recognition of smoke or fire.
- Audible alert and 'escape' light is triggered when sensor is activated due to smoke or fire.
- Powered by 9V Alkaline battery (included).
- Max sensor cable distance up to 900', includes 25'.
- Compatible with Room Alert 32E/W, 26E/W, 24E, 11E, 7E, 4E, 3E, 3W, WiSH & WiSPR.

INCLUDES: Smoke Sensor w/Escape Light, 25' Cable, 9V Alkaline Battery, Mounting Screws & Installation Note.

* More Sensors, Cameras, Packages & Accessories Online.

\$250
POPULAR

Light Tower w/Audio **



ST-RYG-LT

- Light Tower lights turn on when alarms are detected (i.e. pings fail, high temps, room entry, etc.).
- Lights turn on/off via SNMP set, URL & interactively via AVTECH's Device Manager software.
- Adjustable audio alarm with intensity range of 0 to 95 dB (at 1m).
- Includes 15' Light Cable; 25' Extension Cable available.
- **Room Alert 32E/W, 12E & 3E require LT-32-ADP.**
- Compatible with Room Alert 32E/W, 12E, 4E & 3E.

INCLUDES: Light Tower w/Audio, Red, Yellow & Green Lights, 15' Cable, Mounting Bracket & Installation Note.

\$125

Relay Switch Sensor (Low Voltage) **



RMA-RELAY-SEN

- Allows low voltage devices to be turned on/off.
- Three (3) device relays with visible relay status lights.
- One (1) general alarm relay for connection to alarm panel/box.
- Each relay supports 0.3A at 125VAC or 1A at 24VDC.
- **Room Alert 32E/W, 12E & 3E require LT-32-ADP.**
- Compatible with Room Alert 4E directly.

INCLUDES: Relay Switch Sensor With 25' Cable & Installation Note.

\$75

25' Light Tower w/Audio Extension



ST-025G2-CAB

- Designed to extend the length of AVTECH's Light Tower w/Audio.
- Can be extended by adding additional 25' extensions. Maximum extension length is 100'.
- Requires a connection in-line between AVTECH's Light Tower w/Audio and Room Alert 32E/W, or 4E environment monitors.
- Compatible with Light Tower w/Audio ONLY.

INCLUDES: 25' Light Tower Extension Cable & Installation Note.

\$55

Light Tower & Relay Adapter **



LT-32-ADP

- **Required to connect the Light Tower, Light Tower w/Audio or Relay Switch Sensor to AVTECH's Room Alert 32E/W, 12E or 3E.** Allows Light Tower, Light Tower w/Audio or Relay Switch Sensor installs up to 100' away from Room Alert ID box via RJ-11.
- Includes one (1) relay that can be used to turn on/off low voltage devices automatically in response to an alarm condition and separate 5V power supply.
- The relay supports 0.3A at 125VAC or 1A at 24VDC.

INCLUDES: Light Tower & Relay Adapter, 25' RJ-11 Cable, 5V Power Adapter & Installation Note.

\$175
BEST SELLER

GSM Modem w/USB Connect



MOD-GSM-1

- Immediate connectivity to any GSM/GPRS network.
- Controlled via AT&T commands.
- Use with AVTECH's Dial Out Plugin and Device Manager software to trigger modem to dial out to any GSM network and send your alert generated by Room Alert, TemPageR or Axis camera.
- **Requires PC with USB.**
- Compatible with AVTECH's Device Manager software.

INCLUDES: AirLink GL 6110 GSM Modem w/USB Connect, 8' USB Connection Cable, FME Antenna & Installation Note.

\$75

Sound, Light & Entry Sensor (SLE)



RMA-SLE-SEN

- Real-time recognition of sound, light and/or entry. Includes external Room Entry Sensor (\$25 value).
- Specially designed to interface with Room Alert.
- Max sensor cable distance up to 900', includes 25'.
- **Required for alerting on momentary status changes of Room Entry Sensor (i.e. instant open/close).**
- Compatible with Room Alert 32E/W, 26E/W, 24E, 12E, 11E, & 7E.

INCLUDES: Sound, Light & Entry Sensor With 25' Cable, Room Entry Sensor, 5V Power Adapter & Installation Note.

\$70

Power Over Ethernet Active Splitter



POE-ADP-01

- Allows easy integration of Power over Ethernet (PoE) for a non PoE enabled Room Alert monitor.
- Use with a non PoE Room Alert monitor on a PoE enabled network.
- Active Splitter supports 10/100BaseT.
- Compatible with Room Alert 26E/W, 24E, 11E, 7E, 4E, TemPageR 4E, 3E, WiSH & WiSPR.

INCLUDES: PoE Ethernet Active Splitter (5V, RoHS), 2 Adapter Cables & Installation Note.

\$70

Power Over Ethernet Midspan Injector



POE-INJ-01

- Allows easy integration of Power over Ethernet (PoE) for a PoE enabled Room Alert monitor.
- Use in-line with a PoE powered Room Alert monitor when a network is not PoE enabled.
- Midspan Injector supports 10/100BaseT.
- Compatible with Room Alert 32E/W, 12E & 3E

INCLUDES: PoE Midspan Injector (5V, RoHS), Power Cable & Installation Note.

* More Sensors, Cameras, Packages & Accessories Online.

** Room Alert 32E/W, 12E & 3E require use of LT-32-ADP.

Plugin Bundles For Device *ManageR*™

Easy-To-Use Plugins Enhance The Capabilities Of AVTECH's Device ManageR

Plugin - Windows Bundle (Shutdown, Reboot, Log Off & Script) ADM-WINB-PAS

- **Shutdown Windows Systems Remotely Across The Network.** When used with the Device ManageR, this plugin can perform a forced power-down of target systems. Use it to shutdown an unlimited number of Windows systems across the network... individually, in groups, simultaneously, sequentially or according to a schedule. Shutdown systems both automatically without user interaction or interactively from anywhere to save equipment from damage due to extremes.
- **Reboot Windows Systems Remotely Across The Network.** When used with Device ManageR this plugin will perform a forced reboot of the target system. Use it to reboot an unlimited number of Windows systems across the network... individually, in groups, simultaneously, sequentially or according to a defined schedule. Monitoring a system or device via a Ping Object? Use the 'Reboot Action' to restore the service being monitored if/when it stops responding.
- **Log Off Windows Systems Remotely Across The Network.** When used with Device ManageR, this plugin will perform a forced log off of the target system. Use it to log off an unlimited number of Windows systems across the network... individually, in groups, simultaneously, sequentially or according to a defined schedule. Issue log off responses for security, to manage power consumption or more from anywhere in the world by using Device ManageR's easy-to-use web browser interface.
- **Execute Windows Commands, Batch Files Or VBScripts.** When used with Device ManageR this plugin will allow users to execute Windows commands, batch files or VBScripts when alerts are detected. Each instance of the Windows Scripting action will be able to perform one method at a time, however, there are no limits on the number of instances that can be created.
- **Perform Windows Audible Actions.** When used with Device ManageR, this plugin will allow users to automatically speak alert text or play a sound file over the Device ManageR host system's sound card as an alert notification. Use the plugin to notify managers and staff immediately when events occur or issues are resolved, especially effective when users leave their smart phones at their desks.



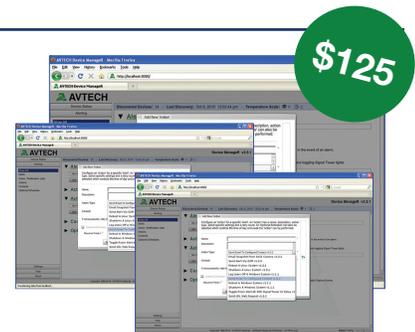
Plugin - Dial Out Bundle (GSM, Text & Voice) ADM-DOB-PAS

- **Send Text Messages To Mobile Devices Via A GSM Modem Or Phone.** This plugin action will use a GSM modem or phone connected to the Device ManageR host system to send a text message via satellite to configured contacts when issues or events occur across the network. Use it to send text messages to an unlimited number of contacts... individually, in groups, simultaneously, sequentially or according to a defined schedule. Send notifications both automatically and immediately to save equipment from environment extremes.
- **Send Text Messages To Mobile Devices Through A Modem Via TAP Service, Or Dial A Phone Directly To Play Dial Tones.** This plugin can be used to call/text an unlimited number of phones... individually, in groups, simultaneously, sequentially or according to a defined schedule. Receiving phones that are 'non-text enabled' can set a customized description or name for the dial out line for easy identification, such as 'Device ManageR' or 'Data Center Alert'. Send notifications both automatically and immediately to save equipment from environment extremes.
- **Call And Play Audio Messages To Mobile Devices Via A GSM or Voice Modem.** This plugin can be used to dial a phone directly and play voice messages to an unlimited number of phones... individually, in groups, simultaneously, sequentially or according to a defined schedule. Send notifications both automatically and immediately to save equipment from environment extremes. Great for 'non-text enabled' phones.



Plugin - Report Generator ADM-REP-PAS

Automatically Generate And Email Scheduled Status Reports. When used with Device ManageR, this plugin allows users to schedule and send email to configured contacts with status updates and advanced statistics on all or select discovered devices (i.e. Room Alert), alerts detected by Device ManageR and more. View and print status and/or statistics for selected environmental sensors within computer rooms, data centers, and other facilities. Keywords are available that allow users to insert real-time values for the number of alerts in progress, number of alerts designated time period, number of devices discovered, current sensor readings and much more. An unlimited number of reports can be created, allowing users the flexibility to create different reports for different contact, or to generate reports according to different schedules (i.e. periodic, daily, weekly or monthly report) or different facilities.



Plugin Bundles For Device *ManageR*TM

Easy-To-Use Plugins Enhance The Capabilities Of AVTECH's Device Manager

Plugin - Unix / Linux Bundle (Report, Windows, Unix / Linux, Dial Out) ADM-UNLB-PAS

- **Shutdown Unix / Linux Systems Remotely Across The Network.** When used with Device Manager, this plugin can perform a forced power-down of the target system. Use it to shutdown an unlimited number of Unix/Linux systems across the network... individually, in groups, simultaneously, sequentially or according to a defined schedule. Shutdown systems both automatically without user interaction or interactively from anywhere to save equipment from damage due to environment extremes.
- **Reboot Unix / Linux Systems Remotely Across The Network.** When used with Device Manager, this plugin will perform a forced reboot of the target system. Use it to reboot an unlimited number of Unix/Linux systems across the network... individually, in groups, simultaneously, sequentially or according to a defined schedule. Monitoring a system or device via a Ping Object? Use the 'Reboot Action' to restore the service being monitored if/when it stops responding.
- **Execute Unix / Linux Commands.** When used with Device Manager, this plugin will allow users to execute Unix/Linux commands when alerts are detected. This action will be able to perform the configured command on the target system by connecting directly via Telnet.



Plugin - Super Bundle (Shutdown, Reboot & Commands) ADM-SUPB-PAS

- **Plugin - Report Generator.** With this plugin, users can automatically generate and email reports for some or all environmental conditions within their computer rooms, data centers and other facilities. Keywords are available that allow users to insert values for the number of alerts in progress, number of alerts in a designated time period, number of devices discovered, current sensor readings and much more. An unlimited number of reports can be created, allowing users the flexibility to create different reports for different contacts, or to generate reports according to different schedules (i.e. periodic, daily, weekly or monthly report, and for one, select or all devices).
- **Plugin - Windows Bundle (Shutdown, Reboot, Log Off, Script & Audible Action).** When used with Device Manager this plugin package allows users to shutdown, log off or reboot Windows systems remotely across the network and/or perform Windows Scripting such as the execution of Windows commands, batch files or VBScripts, when alerts are detected. Each instant of the Windows Scripting action will be able to perform one method at a time, however, there are no limits on the number of instances that can be created. Users can also use audible actions to speak alert text or play sound files over the Device Manager host systems sound card. Perform these actions for an unlimited number of Windows systems across the network... individually, in groups, simultaneously, sequentially or according to a defined schedule. Execute interactively from anywhere via a web browser.
- **Plugin - Unix / Linux Bundle (Shutdown, Reboot & Commands).** When used with Device Manager this plugin package will allow users to shutdown and/or reboot Unix/Linux commands remotely across the network. When an alert is detected, this action can perform a forced power-down or reboot of the target system by connecting directly to the system via Telnet. Shutdown, reboot or set commands for an unlimited number of Unix/Linux systems across the network... individually, in groups, simultaneously, sequentially or according to a defined schedule.
- **Plugin - Dial Out Bundle (GSM, Text & Voice).** When used with Device Manager this plugin package will allow users to send out text messages via a GSM modem, use a TAP service to send out text messages, dial a phone directly and play dial tones, and/or to dial a phone directly and speak alert text as a voice message. Send messages to an unlimited number of contacts... individually, in groups, simultaneously, sequentially or according to a defined schedule.



Plugins for AVTECH's Device *ManageR*TM application enhance the capabilities, ease-of-use and overall user experience of working with Room *Alert*[®] monitors.

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Contact Us

AVTECH Software, Inc.
16 Cutler Street, Cutler Mill
Warren, RI 02885-2761 USA

Sales: 888.220.6700
Phone: 401.628.1600
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