User's Guide & Reference Manual



# Room Alert® S Models

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



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#### **Worldwide Headquarters**

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

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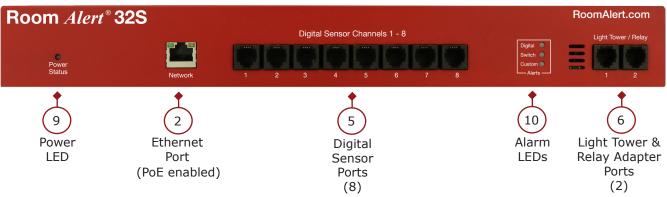
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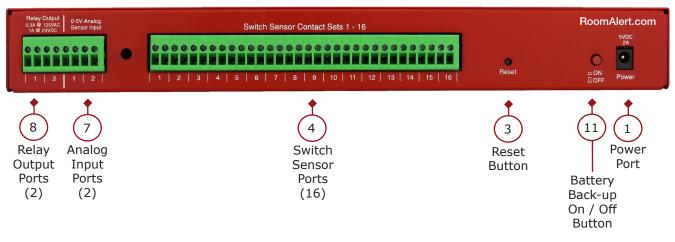
# **Room Alert S Model Hardware Options**

# **Room Alert 32S**





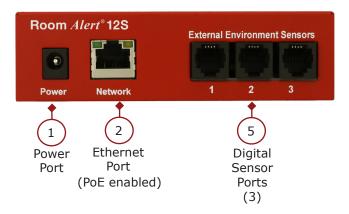
# **Back**



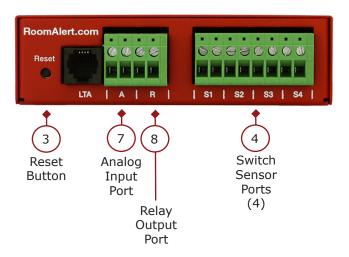
# Internal Sensors Temperature Humidity Power Battery Back-up

# **Room Alert 12S**

# **Front**



# **Back**



#### **Internal Sensors**

Temperature

# **Room Alert Hardware Features**

Internal Temperature Sensor  An internal digital sensor monitors ambient temperature with a range of -40° to 185° F (-40 to 85° C).  Internal Humidity Sensor  Room Alert 32S  An internal digital sensor monitors relative humidity with a range of 5% to 95% RH.	)°
Internal Power Sensor  An internal sensor monitors the power state (management of the power state (management of the power state (management of the power of the	ain
Internal Battery Back-up An internal battery back-up can power Room Ale  Room Alert 32S An internal battery back-up can power Room Ale 32S for up to 15 minutes.	ert
A standard power port connects Room Alert to a electrical outlet with any AVTECH 5V 1A Power Adapter. Models are available for all countries.	n
2 Ethernet Port An RJ-45 port connects Room Alert to your network via an RJ-45 Ethernet cable.	
A small push button resets Room Alert to factor default settings. (Please push softly.)	Y
Dry contacts connect Room Alert to any AVTECH switch sensor or dry contact on a device (e.g., HVAC, generator, pump, fan, etc.) via standard speaker wire or low-voltage 2-wire cable.	I
Standard RJ-11 jacks connects any AVTECH digital sensor to Room Alert via a standard RJ-1 (straight through) telephone cord.	1
A standard RJ-11 jack connects a Light Tower & Relay Adapter Port(s)  A standard RJ-11 jack connects a Light Tower & Relay Adapter to Room Alert via a standard RJ1 (straight through) telephone cord.	
7 Analog Input Port(s) Sets of contacts connect any low-voltage analog sensor to your Room Alert via standard speaker wire.	
8 Relay Output Port(s) Sets of contacts connect any low-voltage device your Room Alert via standard speaker wire.	to
9 Power Status LED An LED indicates the power status of Room Aler 32S (Green = Main or PoE, Red = Internal UPS power).	
Alarm LEDs Room Alert 32S  LEDs light red or green to indicate alarm or clear status of Digital or Switch sensors (Green = Clear, Red = Alarm).	r
Battery Back-up On / Off Button Room Alert 32S  A push button turns the Room Alert's internal battery back-up on and off.	

# **Standard Room Alert Packages**

# **Room Alert 32S**

The standard package includes:

- One (1) Room Alert 32S ID Box
- One (1) External Digital Active Power Sensor
- One (1) External Digital Temperature Sensor
- One (1) AVTECH 5V 1A Power Adapter
- One (1) Ethernet Cable (10')

#### **Room Alert 12S**

The standard package includes:

- One (1) Room Alert 12S ID Box
- One (1) External Digital Active Power Sensor
- One (1) AVTECH 5V 1A Power Adapter
- One (1) Ethernet Cable (10')

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# **How To Install Your Room Alert S Model**

#### **Connect Your Room Alert Hardware**

# If Your Network Is Power Over Ethernet (PoE) Enabled

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

That's it! Your Room Alert is now powered and discoverable on your network.



# If Your Network Is Not Power Over Ethernet (PoE) Enabled

#### A. Connect To Your Network First

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

#### **B. Then Connect To A Power Source**

- Plug one end of AVTECH's 5V 1A Power Adapter into the Room Alert power port.
- Plug the other end into a surge-protected power source.



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

#### NOTE

Use only AVTECH's 5V 1A Power Adapter. Other voltages could damage the Room Alert hardware and void your warranty. If you don't have an AVTECH 5V 1A Power Adapter, please visit our online store at <a href="AVTECH.com">AVTECH.com</a> to acquire one. Models are available for all countries.

# **Connect Included External Sensors And Other Compatible Components**

Please install included external sensors and any other compatible components you may have purchased according to their Installation Notes, available at <u>AVTECH.com</u>.

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# **How To Use Room Alert S Model Web Interface**

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

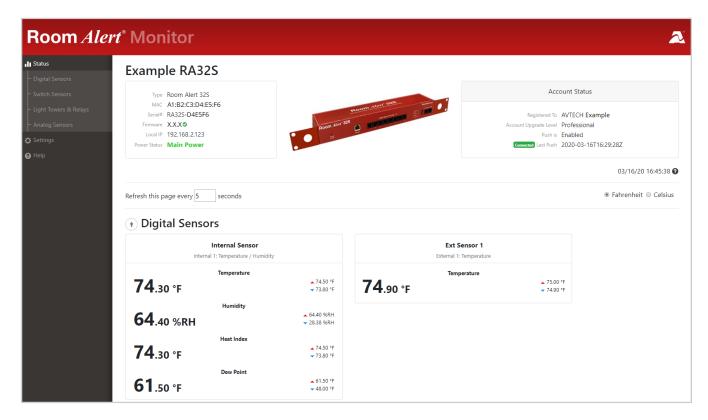
- Type the IP address of your Room Alert monitor directly into the address bar of your web browser.
- Discover your Room Alert monitor with Room Alert Link software, and select its IP address from the *Monitors* list.
- Select your Room Alert monitor in your <u>RoomAlert.com</u> account and click the **Device Interface** button.

Your Room Alert's web interface has 3 tabs:

- Status
- Settings
- Help

#### **Status**

To view your Room Alert's current sensor status, select **Status** in the navigation bar to the left of your screen.



#### Banner & Header

#### Banner

At the top of the page runs the red Room Alert banner.

# Room Alert® Monitor

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• You may visit <u>AVTECH.com</u> by selecting the AVTECH logo in the banner.

#### Header

Below the banner is the header, where you may view basic information about your device.



On the left side of the header, you may find the following information:

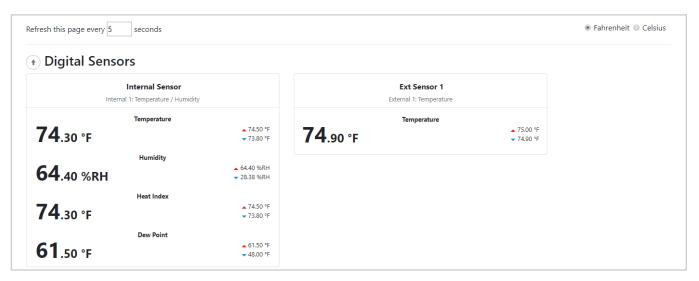
- Device Name
- Model
- MAC Address
- Serial Number
- Firmware Version
- Local IP Address
- Power Status

On the right side of the header, you may find the following information under *Account Status*:

- The account your Room Alert monitor is registered to in RoomAlert.com.
- Your RoomAlert.com account level.
- Whether push to <u>RoomAlert.com</u> is enabled.
- Whether the Room Alert monitor is connected to your RoomAlert.com account.
- The time & date the Room Alert monitor last pushed sensor data to your RoomAlert.com account.

# **Sensor Display Area**

In the main viewing pane of the Status tab is the sensor display area. Here you may view your sensor data and temporarily change Status page settings.



# Temporary Status Page Settings

You may temporarily change the refresh interval of the Status page and default temperature scale here.



- To temporarily modify the refresh interval of the Status screen, which is 5 seconds by default, you may enter a value in seconds in the *Refresh this page every X seconds* field. Click outside the field to temporarily commit the change.
- To temporarily toggle the temperature scale between Fahrenheit (F) and Celsius (C), select **Fahrenheit** or **Celsius**.



Refer to the <u>Advanced</u> section in this manual for instructions on setting the default status page refresh rate and temperature scale for Room Alert.

# Alarm Status Icons

Status icons are displayed for sensors that have thresholds set:

- 😢 Red circle with "X" mark......Sensor is in an alarm state.

No status icon......Sensor has no thresholds set.

# High And Low Reading Icons

Arrows are displayed next to the highest and lowest readings on a sensor since the Room Alert last rebooted:

- ▼ Blue downward arrow.....Lowest reading since last reboot of Room Alert.

# Navigating The Status Page

Your Room Alert displays your sensors in the following order:

- Digital Sensors
- Switch Sensors
- Light Towers and Relays
- Built-in Analog Sensors

To navigate to the different types of sensors in the Sensor Display Area, you may scroll down the page or select the sensor category from the navigation bar to the left of your screen.

Note

Sensors connected to analog input ports and light tower & relay ports do not appear on the Status page until you enable them in the Settings screen. Refer to Settings in this manual for instructions.

# **Settings**

# **Accessing Settings**

To access your Room Alert's settings:

- 1. Select **Settings** in the navigation bar to the left of your screen.
- 2. Next, enter your credentials in the *Username* and *Password* fields.
  - If you did not save custom credentials to your Room Alert 32S or 12S already, enter these default credentials:

o Username: admin

Password: password

Then select Click Here To Access Settings.

# **Navigating Settings**

Settings has the following sub-tabs shown in the navigation bar to the left of your screen.

- Sensors
- Alarms
- Network
- Email
- SNMP
- Security
- Advanced

You may navigate to each of these sections by selecting the appropriate sub-tab. Settings opens by default to the Sensor Settings page.

# Saving Settings

To save a setting, click out of the field you just modified and notice that a notification bar appears at the top and bottom of the page.

You have *unsaved settings* in the following sections:

Sensors, Network, Advanced

Clear Changes

This notification bar contains the following items:

• A list of Settings pages you have unsaved changes on.

 A Save Settings button. • A Clear Changes button. You may navigate among the Settings pages, making changes in different places, and then save the changes all at once. When you are ready to save all the modifications you've made, select the Save Settings button. Your Room Alert will automatically reboot and commit your changes. Before you save, if you decide you don't want the changes you just entered, you may re-load the page(s) without them by using the **Clear Changes** button. Settings will re-load without your modifications. The Room Alert does not reboot, and any already-saved settings remain.

Room Alert S Models (RA32S-DAP-RAS & RA12S-DAP-RAS)

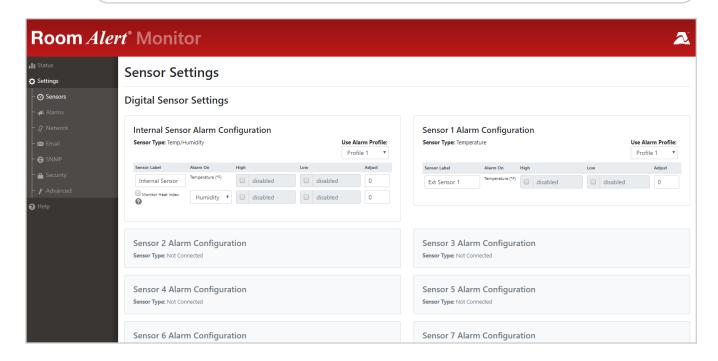
#### Sensors

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

You may configure alert thresholds for your Room Alert's sensors in this screen. Your Room Alert sends alerts based on these thresholds.

#### Note

For more information about AVTECH sensors and accessories, please visit the Sensors and Accessories sections of AVTECH.com.



# Note

Notice the Use Alarm Profile drop-down menu next to each sensor. If you have an AVTECH Light Tower, Relay Switch or built-in relays on your Room Alert, you may configure Alarm Profiles to toggle them on and off when alarms are detected. Please refer to the <u>Alarms</u> section in this manual for further information.

# **Digital Sensor Settings**

You may configure alarm thresholds for the digital sensors—both internal and external—in this section.



The Room Alert 32S has an internal temperature sensor and an internal humidity sensor. The Room Alert 12S has an internal temperature sensor.

In the example below, we will configure a Digital Temperature Sensor:



1. In Sensor Label, you may leave the default label, "Internal Sensor" (or "Ext Sensor 1," etc.) or rename it to something more descriptive, such as "Server Rm Temp."

Tip

Room Alert 32S & 12S sensor labels may be up to 30 characters and can include the following: letters, numbers, spaces, and special characters.

2. The Alarm On field automatically fills in—in this case with "Temperature (F)."

# Note

Refer to the <u>Advanced</u> section in this manual for instructions on setting the default temperature scale.

- 3. The *High* and *Low* fields are disabled by default.
  - To enable a High or Low threshold, select the check box in that field.
  - You may then leave the default value or enter a custom temperature threshold.
  - Your Room Alert will generate alerts based on these thresholds.
- 4. In *Adjust*, you may enter a value to adjust the temperature reading if it differs from a known value at that location.
- 5. In *Use Alarm Profile*, which controls light towers and relays on your Room Alert, you may leave the default, **Profile 1**, or choose another profile from the drop-down menu.

# Note

If you have an AVTECH Light Tower, Relay Switch or built-in relays on your Room Alert, you may configure Alarm Profiles to toggle them on and off when alarms are detected. Please refer to the <u>Alarms</u> section in this manual for further information.

6. Select **Save Settings** at the top or bottom of the page. Your Room Alert will automatically reboot and commit your changes.

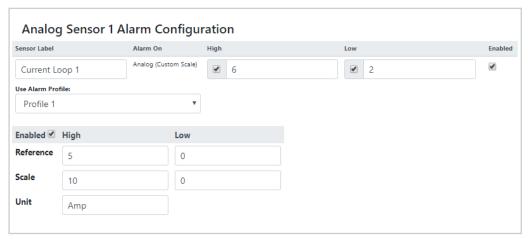
Tip

The options in the Sensor Alarm Configuration fields vary slightly depending on the type of digital sensor.

# **Analog Sensor Settings**

You may configure the 0-5 VDC analog sensor connected to your device's built-in analog port(s) in these fields.

In the example below, we are configuring AVTECH's Current Loop 1.



- 1. First, enable the sensor by selecting **Enabled** in the set of fields to the right of the sensor configurations. The built-in analog sensor will not appear in the Room Alert web interface, <u>RoomAlert.com</u> account or SNMP program unless it is enabled.
- 2. In the set of fields toward the bottom of the sensor configurations, select **Enabled** to turn on the *Reference*, *Scale* and *Unit* fields.
  - In Reference, enter values from 5 to 0 that represent the *High* and *Low* points of your analog sensor's output signal range. In the case of the Current Loop 1, which outputs a signal of 0-5 VDC, we've left the default values.
  - In *Scale*, enter the *High* and *Low* points of the scale you want the Reference reading to be converted to. In our Current Loop example, we would like to convert 0-5 volts to 0-10 amps, so we've replaced the default of 5 in *High* with 10 and left the default of 0 in *Low*.
  - In *Unit*, enter a 1 to 3-character label for the unit type that your readings will be measured in. If you are measuring amperage, as with the Current Loop, you might enter "A" or "Amp," for example. Note that this field is merely a label and does not affect any of the calculations.
- 3. Return to the upper section of the sensor configurations to enter your sensor label and thresholds:
  - In Sensor Label, you may leave the default, "Analog 1" or choose something more descriptive, such as "Current Loop 1" or "Cryogenic Temp."

Tip

Room Alert 32S & 12S sensor labels may be up to 30 characters and can include the following: letters, numbers, spaces, and special characters.

- 4. The *High* and *Low* fields are disabled by default.
  - To enable a High or Low threshold, select the check box in that field.
  - You may then leave the default value or enter values that fall within the *Scale* range from the previous step. In our example, we entered a conversion scale of 0 to 10 (amps) in the previous step for the Current Loop, and we've chosen to generate alarms at the high and low thresholds of 6 and 2 (amps).

# Tip

With the custom scale enabled, you may enter positive and negative whole numbers in High and Low that fall within the Scale range; with the custom scale disabled, you may enter decimal numbers in the range of +/-5.0 (for 0-5 VDC).

 The Adjust field is not available if custom scale is enabled. When custom scale is disabled, you may enter a value to adjust the reading if it differs from a known value.

# Tip

With the custom scale disabled, you may enter decimal numbers in the range of  $\pm -5.0$ .

5. In *Use Alarm Profile*, which controls light towers and relays on your Room Alert, you may leave the default, **Profile 1**, or choose another Alarm Profile from the drop-down menu.

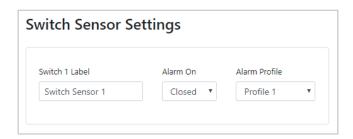
# Note

If you have an AVTECH Light Tower, Relay Switch or built-in relays on your Room Alert, you may configure Alarm Profiles to toggle them on and off when alarms are detected. Please refer to the <u>Alarms</u> section in this manual for further information.

6. Select **Save Settings** at the top or bottom of the page. Your Room Alert will automatically reboot and commit your changes.

#### Switch Sensor Settings

You may configure the alert state for the external switch sensors in the *Switch Sensor Settings* fields. Shown below are the default settings.



Your Room Alert 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 your sensor. AVTECH's Motion Sensor, for example, is "Open" when it detects movement and "Closed" when it doesn't; in that case, you'd likely 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. Select the **Status** tab in the navigation bar to the left of your screen.
- 2. Scroll down to the Switch Sensors and look at the circuit state of the channel you connected your sensor to. If you connected your sensor to the first switch sensor port on Room Alert, look at Channel 1; if you connected it to the second, look at Channel 2, etc.

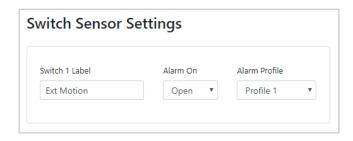
Switch Sensors

Switch Sensor 1
Channel 1: Switch



- 4. 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.
- 5. 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.)

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



1. In Sensor Label, you may leave the default, "Switch Sensor 1" (2, 3 or 4, etc.) or enter something more descriptive, such as "Ext Motion" or "Main Entry."

Tip

Room Alert 32S & 12S sensor labels may be up to 30 characters and can include the following: letters, numbers, spaces, and special characters.

- 2. In *Alarm On*, select the alarm state (**Open** or **Closed**). In our example, the alarm state is **Open**.
- 3. In *Alarm Profile*, which controls light towers and relays on your Room Alert, you may leave the default, **Profile 1**, or choose another Alarm Profile from the drop-down menu.

# Note

If you have an AVTECH Light Tower, Relay Switch or built-in relays on your Room Alert, you may configure Alarm Profiles to toggle them on and off when alarms are detected. Please refer to the <u>Alarms</u> section in this manual for further information.

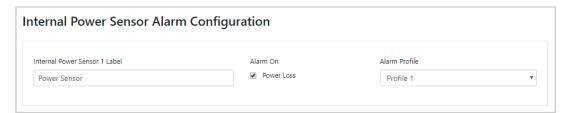
4. Select **Save Settings** at the top or bottom of the page. Your Room Alert will automatically reboot and commit your changes.

Tip

For any of the switch sensor sets you leave unused on your Room Alert, choose **Disabled** from the *Alarm On* drop-down menu to avoid confusion or false alerts.

# Internal Power Sensor Alarm Configuration ( Room Alert 32S)

You may configure the power sensor that is built in to the Room Alert 32S here. This internal power sensor triggers on loss of main power and can send a notification while the battery back-up keeps the Room Alert monitor powered for a short time.



1. In *Internal Power Sensor Label*, you may leave the default "Power Sensor" or enter something more descriptive, such as "RA32S Power."

Tip

Room Alert 32S sensor labels may be up to 30 characters and can include the following: letters, numbers, spaces, and special characters.

2. In *Alarm On Power Loss*, you may leave the checkbox filled in if you wish to receive an alert when your Room Alert 32S loses its main power source. Otherwise, you may uncheck it.

3. In *Alarm Profile*, which controls light towers and relays on your Room Alert, you may leave the default, **Profile 1**, or choose another Alarm Profile from the drop-down menu.

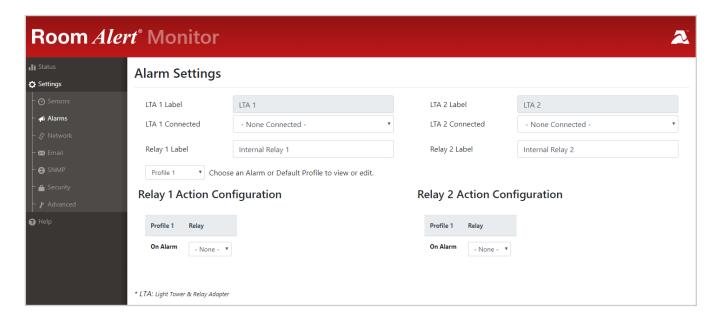
# Note

If you have an AVTECH Light Tower, Relay Switch or built-in relays on your Room Alert, you may configure Alarm Profiles to toggle them on and off when alarms are detected. Please refer to the <u>Alarms</u> section in this manual for further information.

4. Select **Save Settings** at the top or bottom of the page. Your Room Alert will automatically reboot and commit your changes.

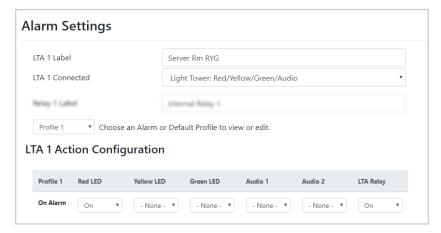
#### **Alarms**

Navigate to **Settings**  $\rightarrow$  **Alarms** to open the *Alarm Settings* screen. Here you may configure light towers and relays.



# Light Tower/Relay Profile Configuration

In this example, we'll select and name a Light Tower w/Audio in *LTA 1* and then configure its Profile 1.



- 1. In LTA 1 Label, you may leave the default, "LTA 1" or enter something more descriptive, such as "Server Rm RYG."
- 2. In *LTA 1 Connected*, select the appropriate option from the choices in the drop-down menu. For this example, we are choosing **Light Tower: Red/Yellow/Green/Audio** for the Light Tower w/Audio.
- 3. Once you choose your device, the Alarm Profile configuration grid beneath it expands. Notice that all features are set to **-None-** by default.

# Tip

The features available vary depending on the device you've selected.

4. Choose the Profile you wish to configure in the *Profile* drop-down list. Depending on your model, you may have up to 5 available Profiles, plus a "Default" profile where you can configure the built-in Relay's default behavior.



The Room Alert 32S offers a "Default" profile plus 5 additional profiles. The Room Alert 12S offers a "Default" profile plus 3 additional profiles.

# Light Tower & Relay Adapter (LTA)

A Light Tower & Relay Adapter gives you the option to add an AVTECH Light Tower, Light Tower w/Audio or Relay Switch to your Room Alert. You may also connect a low-voltage device directly to the built-in relay port on the Light Tower & Relay Adapter.

Shown here is a sample configuration:









**Room Alert** 

RJ-11 Cable Light Tower & + Relay Adapter

Light Tower Custom Cord Light Tower w/ Audio

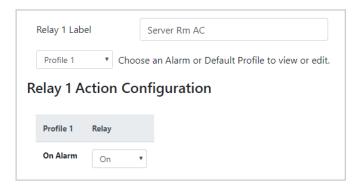
Note

The Light Tower w/Audio in this configuration can be replaced with a standard Light Tower or Relay Switch. For more information about AVTECH sensors and accessories, please visit the Sensors & Accessories sections of AVTECH.com.

# Relay Action Configuration

Here you may set the devices connected through the built-in relay output port(s) to turn on or off in response to your Room Alert sensors going in and out of alarm state.

In this example, we'll configure Relay 1.



1. In *Relay 1 Label*, you may leave the default, "Internal Relay 1," or enter something more descriptive, such as "Server Rm AC."



Room Alert 32S &12S relay labels may be up to 30 characters and can include the following: letters, numbers, spaces, and special characters.

2. Choose the Profile you wish to configure in the Profile drop-down list. Depending on your model, you may have up to 5 available Profiles, plus a "Default" profile where you can configure the built-in Relay's default behavior.



The Room Alert 32S offers a "Default" profile plus 5 additional profiles. The Room Alert 12S offers a "Default" profile plus 3 additional profiles.

#### Associate Alarm Profiles With Sensors

Each sensor is set at Profile 1 by default; connected light towers, built-in LTA relays, Relay Switches and built-in relay outputs execute Profile 1 when that sensor goes into an alarm state.

You may associate a profile with a sensor by following the steps below. In this example from our Room Alert 32S, you can see we have 5 profiles to choose from:

- 1. Navigate to **Settings** → **Sensors**.
- 2. Find your sensor's interface and choose the profile you've configured from the drop-down list in *Use Alarm Profile*.

3. Note that the default for all sensors is **Profile 1**. You may also choose **No Alarm** if you do not want to associate your sensor with a profile.



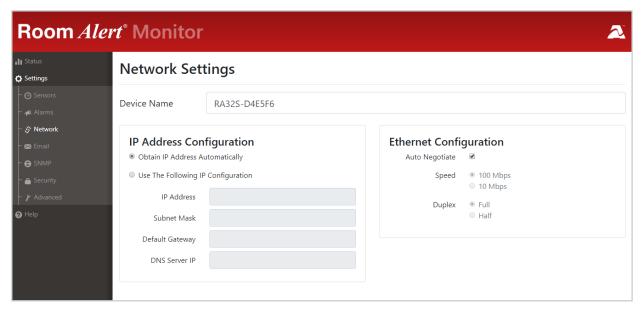
4. Select **Save Settings** at the top or bottom of the page. Your Room Alert will automatically reboot and commit your changes.

Tip

Alarm Profiles affect only light towers and relays; they do not affect email alerts.

#### **Network**

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



#### **Device Name**

To rename your Room Alert:

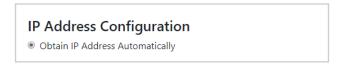
1. Select the automatically-assigned name in *Device Name* and enter a new one of up to 30 characters.



Room Alert 32S & 12S device names may be up to 30 characters and can include the following: letters, numbers, spaces, and special characters.

2. Select **Save Settings** at the top or bottom of the page. Your Room Alert will automatically reboot and commit your changes.

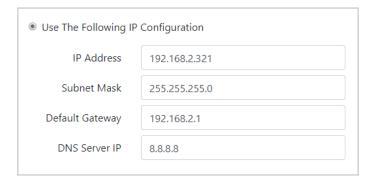
# IP Address Configuration—DHCP



To obtain an IP address automatically using DHCP:

- 1. Select **Obtain IP Address Automatically**, which is the default setting.
- 2. Select **Save Settings** at the top or bottom of the page. Your Room Alert will automatically reboot and commit your changes.

# IP Address Configuration—Static IP



# To assign a static IP address:

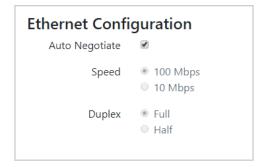
- 1. Select Use The Following IP Configuration.
- 2. In *IP Address*, enter the new static IP address.
- 3. In *Subnet Mask*, enter the subnet mask.
- 4. In *Default Gateway*, enter the gateway IP address.
- 5. In *DNS Server IP*, enter the DNS server IP address.
- 6. Select **Save Settings** at the top or bottom of the page. Your Room Alert will automatically reboot and commit your changes.

Tip

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.

# **Ethernet Configuration**

Typically, you may leave the Ethernet Configuration section at the defaults, which are shown below.



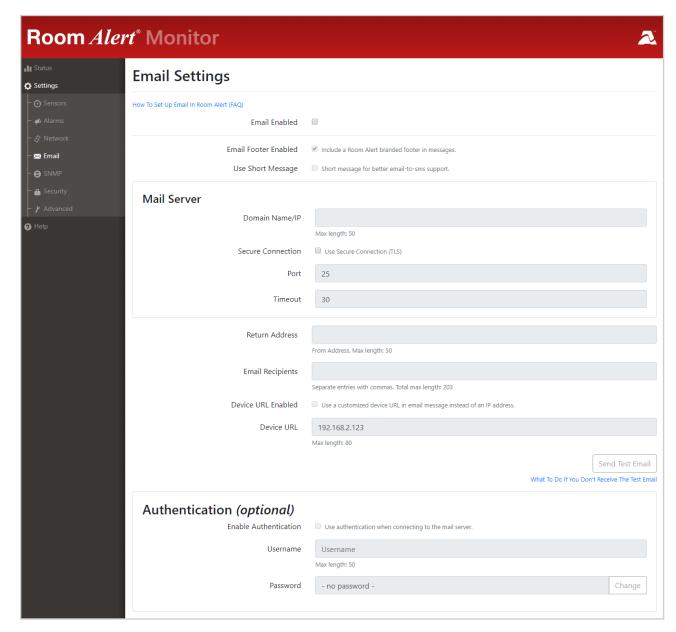
However, if you connect your Room Alert to a managed switch that controls your network traffic, you may need to change these settings:

Room Alert S Models (RA32S-DAP-RAS & RA12S-DAP-RAS)	
1. You may uncheck <b>Auto Negotiate</b> and choose:	
o For Speed, 100 Mpbs or 10 Mbps.	
o For Duplex, Full or Half.	
<ol><li>Select Save Settings at the top or bottom of the page. Your Room Alert will automatically reboot and commit your changes.</li></ol>	

#### **Email**

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

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



- 1. Check Email Enabled.
- 2. You may leave **Email Footer Enabled** checked to include AVTECH contact information with email messages.
- 3. You may check **Use Short Message** to send a shorter email with a reduced character count.

#### 4. In Mail Server:

- In *Domain Name/IP*, enter the domain name or IP address of your mail server.
- In *Secure Connection*, select the checkbox if your mail server requires SSL or TLS encryption.
- In *Port*, enter your mail server's SMTP port. The default is 25, a commonly-used port.
- In *Timeout*, you may leave the default, 30 seconds, or enter another interval.
- 5. In *Return Address*, enter an email address that resides on your mail server. This is the address alert messages will come from.
- 6. In *Email Recipients*, enter the email and email-to-SMS addresses that you'd like to send alerts to. Separate each address with a comma. (Do not enter spaces after the commas.)
  - Email address: ITMgr@Example.com
  - Email-to-SMS address: 1235551900@ATT.txt.net
  - Addresses separated by commas: ITMgr@Example.com,1235551900@ATT.txt.net, etc.
- 7. The *Device URL* field controls what IP or URL displays in email alerts. You may leave the default, a disabled, blank field, or enter a custom IP address or URL. To make a custom entry, you must first check **Device URL Enabled**.
  - When this field is left at the default (disabled, blank), your email alerts will contain the Room Alert's current IP address and HTTP or HTTPS port number in the body of the email.
  - When this field is overwritten with a custom IP or URL, your email alerts will contain that custom IP or URL in the body of the email.

# Authentication (Optional)

- 8. If your mail server requires SMTP authentication, check **Enable Authentication**.
- 9. In *Username*, enter a valid username for your mail server that will facilitate authentication.
- 10. In *Password*, first select the **Change** button to enable the field. Then enter a valid password for your mail server that will facilitate authentication.
- 11. Select **Save Settings** at the top or bottom of the page. Your Room Alert will automatically reboot and commit your changes.

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

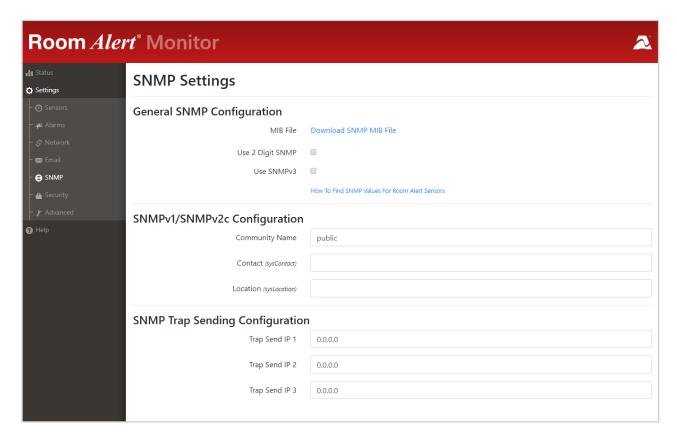
# **Simple Network Management Protocol (SNMP)**

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

If you use a 3<sup>rd</sup>-party SNMP monitoring application:

- Obtain the Room Alert MIB files and load them into your SNMP monitoring application. Otherwise, your application cannot properly translate the data it receives in the SNMP Trap.
- Determine if your application uses SNMPv1, v2c, or v3.
- 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.



# General SNMP Configuration

- 1. Select **Download SNMP MIB File** to download the Room Alert MIB files.
- 2. You may select **Use 2 Digit SNMP** if you prefer to receive values in 2-digit rather than 4-digit format.

Tip

Room Alert sends values to your 3<sup>rd</sup>-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.

3. If your SNMP monitoring application uses SNMPv3, select **Use SNMPv3**; otherwise, leave this box un-checked.

# SNMP Configuration v1 &v2c

To begin configuring your Room Alert for SNMP v1 or v2c:

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

Tip

The community name you assign here must match the one in your 3<sup>rd</sup>-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 monitor.
- 4. Select **Save Settings** at the top or bottom of the page. Your Room Alert will automatically reboot and commit your changes.

# SNMP Configuration v3

After you select **Use SNMPv3**, you'll see new options appear on the SNMP Settings page. To begin configuring your Room Alert for SNMP v3:

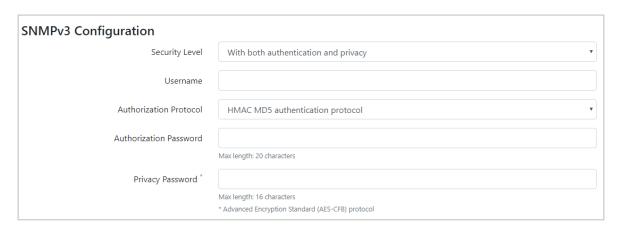
1. Select a *Security Level* from the drop-down menu. The default is No authentication or privacy.



- 2. If you select **With authentication but no privacy** or **With authentication and privacy**, you'll see some or all of these additional fields:
  - In *Username*, enter the username that's configured in your SNMP monitoring program.
  - In Authorization Protocol, select the protocol that your SNMP monitoring program is

configured to use. The default is HMAC MD5 authentication protocol.

- In *Authentication Password*, enter the authentication password that's configured in your SNMP monitoring program.
- In *Privacy Password*, enter the privacy password that's configured in your SNMP monitoring program.



3. Select **Save Settings** at the top or bottom of the page. Your Room Alert will automatically reboot and commit your changes.

# **SNMP Trap Sending Configuration**

You may configure your Room Alert 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.



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 3<sup>rd</sup>-party SNMP monitoring application.
- 2. In *Trap Send IP 2* and *Trap Send IP 3*, you may enter the IP addresses of other host systems that run 3<sup>rd</sup>-party SNMP monitoring applications, or leave the default, 0.0.0.0.
- 3. Select **Save Settings** at the top or bottom of the page. Your Room Alert will automatically reboot and commit your changes.

# Security

The username and password on your Room Alert 32S &12S protect all of its Settings pages.

#### **Default Credentials**

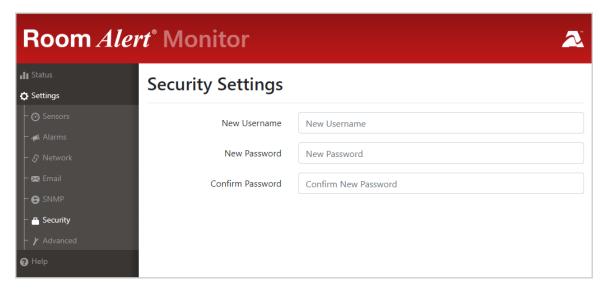
By default, your Room Alert has these credentials:

• Username: admin

• Password: password

#### **Custom Credentials**

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



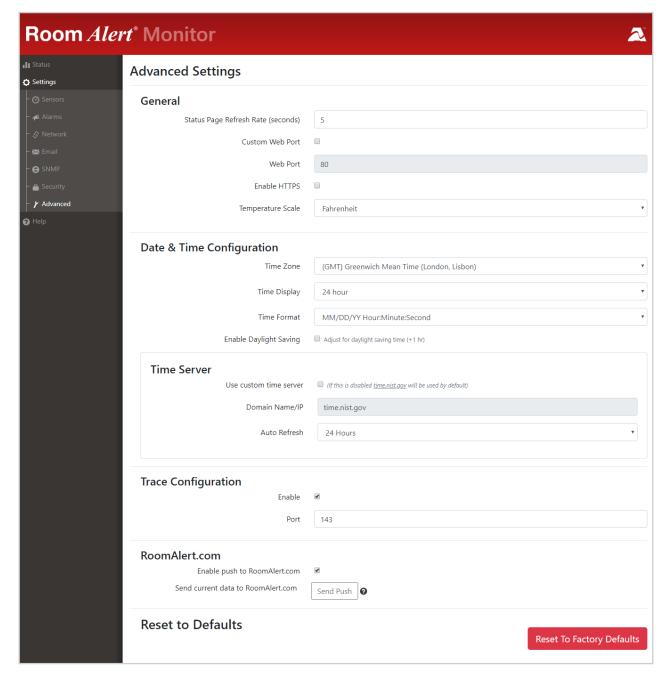
To set custom credentials,

- 1. In New Username, you may create a username of up to 50 characters.
- 2. In New Password, you may create a password of up to 50 characters.
- 3. Re-enter the password in the *Confirm Password* field to verify.
- 4. Select **Save Settings** at the top or bottom of the page. Your Room Alert will automatically reboot and commit your changes.

#### Advanced

You may configure a number of advanced options here, including Status screen defaults, time & date, trace output and push to <a href="RoomAlert.com">RoomAlert.com</a>.

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



#### General

In the *General* section, you may set defaults for the *Status* screen:

• In Status Page Refresh Rate (seconds), enter the number of seconds you would like

the *Status* screen to refresh at. You may enter a value from 1 to 255. The default is 5 seconds.

- In Web Port, you may change the port number your web browser uses to connect to your Room Alert's web interface. By default, it uses port 80 for HTTP and port 443 for HTTPS.
- To change the web port, select the Custom Web Port checkbox above the Web Port field.
- Select the **Enable HTTPS** checkbox to enable your Room Alert to use HTTPS for its local web interface. When enabled, your Room Alert Monitor's local web interface is secured by an SSL certificate issued to \*.roomalertmonitor.com.
- In *Temperature Scale*, you may choose **Fahrenheit** or **Celsius** from the drop-down list. **Fahrenheit** is the default.

# Date & Time Configuration

In *Date & Time Configuration*, you may configure the date and time defaults for your Room Alert.

- In *Time Zone*, select your time zone from the drop-down list. (GMT) Greenwich Mean Time is the default.
- In *Time Display*, you may select the AM/PM or 24 hour format from the drop-down list. The 24 hour setting is the default.
- In *Time Format*, you may select either the MM/DD/YY or DD/MM/YY date format from the drop-down list. Month first (MM/DD/YY) is the default.
- Select **Enable Daylight Savings** if you would like your Room Alert time setting to compensate by +1 hour for daylight savings time.

#### Time Server

By default, Room Alert uses the Network Time Protocol (NTP) server, time.nist.gov. In the *Time Server* sub-section, you may choose to use a custom time server.

- To use a different time server, select the **Use custom time server** checkbox.
- In *Domain Name/IP*, enter your time server's domain name or IP address.
- In *Auto Refresh*, you may select how often Room Alert 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.

# **Trace Configuration**

You may configure your Room Alert for trace output, which is useful for troubleshooting.

Trace output shows the communication between your Room Alert and your mail server, as well as other information, such as the current firmware version, IP address, MAC address, and requests to web pages.

- To configure trace output, first select **Enable**.
- In *Port*, you may leave the default port, 143, or enter another port number.

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

#### RoomAlert.com

Room Alert Monitors with push to <u>RoomAlert.com</u> enabled automatically update your Room Alert Account with sensor data at defined intervals.

- Push to <u>RoomAlert.com</u> is enabled by default.
- If you wish to disable push to <a href="RoomAlert.com">RoomAlert.com</a>, un-check the <a href="Enable push to RoomAlert.com">Enable push to RoomAlert.com</a> box.
- Select Send Push to manually send sensor data to RoomAlert.com.

When you're done making changes in the *Advanced Settings* page, select **Save Settings** at the top or bottom of the page. Your Room Alert will automatically reboot and commit your changes.

#### Reset to Defaults

At the bottom of the Advanced Settings page, you'll find the **Reset To Factory Defaults** button.

Resetting to defaults removes all of your custom settings, including sensor thresholds, static IP address settings and password security.

To reset your device to defaults:

- 1. Select the **Reset To Factory Defaults** button.
- 2. In the confirmation box that appears, select **Reset Now** to proceed with the reset process, or select **Cancel** to close the window.

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# For More Information...

# **Visit our Support Center.**

Go to <a href="https://AVTECH.com/Support/">https://AVTECH.com/Support/</a> to view our collection of:

- Frequently Asked Questions
- Installation Notes
- Product Tours
- · and more

#### Find us on YouTube.

Go to the <u>AVTECH Software</u>, <u>Inc. YouTube Channel</u>, and let us walk you through the steps to configure alerts & reports for your Room Alert Monitors—and so much more.

# **Common Questions**

How To Discover A Room Alert Monitor

How To Update Firmware On Room Alert Monitors

How To Reset A Room Alert Monitor To Factory Defaults

How To Create Alerts In Your RoomAlert.com Account

How To Create A Report In Your RoomAlert.com Account

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