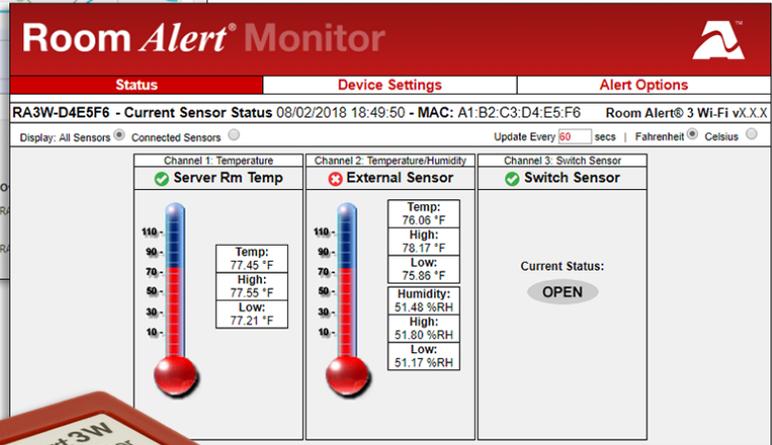
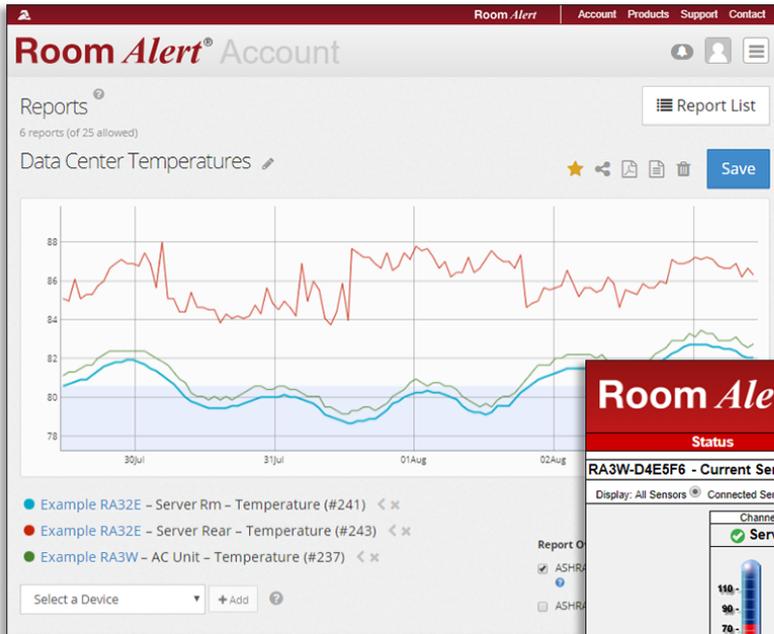


# Room Alert® 3 Wi-Fi

## User's Guide & Reference Manual



## Contact Us

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**Resellers: Order Through Your Favorite Reseller** - Ask them to contact AVTECH on your behalf. AVTECH has a network of resellers world-wide and we are happy to recommend a reseller in your country.

**Phone: 888.220.6700 / 401.628.1600** (9-5 EST) - Call AVTECH direct and ask to speak with a Product Specialist. They can take your order immediately or provide you with a quote by email. If outside the U.S.A. or Canada, please ask for an International Product Specialist as they can address international shipping and customs concerns.

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**Fax: 401.628.1601** - Send your purchase order (PO), completed quote form or order instructions to AVTECH via fax anytime. Faxes are received in a secure facility.

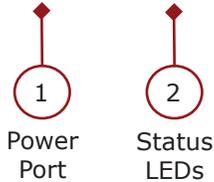
NOTE: International orders ship when payment in U.S.D. is received. Wire transfer or credit card payment is preferred. Checks must be in U.S.D., include a U.S. routing code, and drawn on a U.S. bank.

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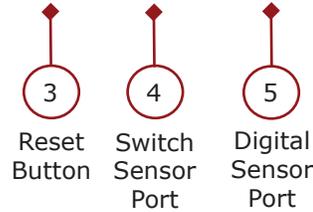
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## Room Alert 3 Wi-Fi Hardware

Front



Back



### Internal Sensors

- Temperature

## Room Alert 3 Wi-Fi Hardware Features

### Internal Temperature Sensor

An internal digital sensor monitors ambient temperature with a range of -40° to 185° F (-40° to 85° C).

### 1 Power Port

A standard power port connects Room Alert 3 Wi-Fi to an electrical outlet with any AVTECH 5V 1A Power Adapter. Models are available for all countries.

### 2 Status LEDs

Two (2) LEDs display the Link ("L") state or Status ("S") of Room Alert 3 Wi-Fi.

### 3 Reset Button

A small push button resets Room Alert 3 Wi-Fi to factory default settings. (Please push softly.)

### 4 Switch Sensor Port

Dry contacts connect Room Alert 3 Wi-Fi 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.

### 5 Digital Port

Standard RJ-11 jack connects any AVTECH digital sensor to Room Alert 3 Wi-Fi via a standard RJ-11 (straight through) telephone cord.

## Standard Room Alert 3 Wi-Fi Package

The standard package includes:

- One (1) Room Alert 3W ID Box
- One (1) AVTECH 5V 1A Power Adapter

## How To Install Your Room Alert 3 Wi-Fi

### Step 1: Connect Your Room Alert 3 Wi-Fi To A Power Source

- Connect one end of the AVTECH 5V 1A Power Adapter to the Room Alert 3 Wi-Fi's power port.
- Connect the other end to a surge-protected power source. Notice that the "S" LED (on the right) blinks once when the Room Alert 3 Wi-Fi is first connected to power.



### NOTE

Use only AVTECH's 5V 1A Power Adapter. Others could damage the Room Alert 3 Wi-Fi and void your warranty. If you don't have one, please visit our online store at [AVTECH.com](http://AVTECH.com). Models are available for all countries.

### Step 2: Configure Your Room Alert 3 Wi-Fi's Network Settings

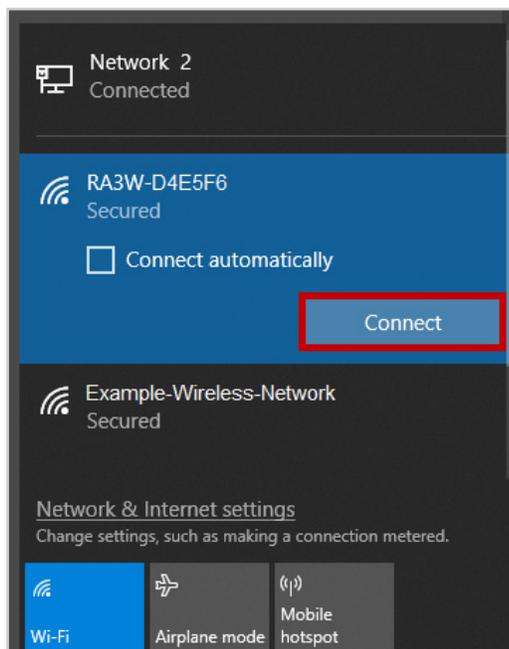
#### A. Connect To The Room Alert 3 Wi-Fi's Wireless Access Point

- In your Windows task bar, select your **Network Connection Status** icon  to open the list of your networks.



You'll see the Room Alert 3 Wi-Fi listed as an available wireless network. Its name (also known as its SSID) will be in this format: RA3W-XXXXXX.

- Select that name, and then select **Connect**.

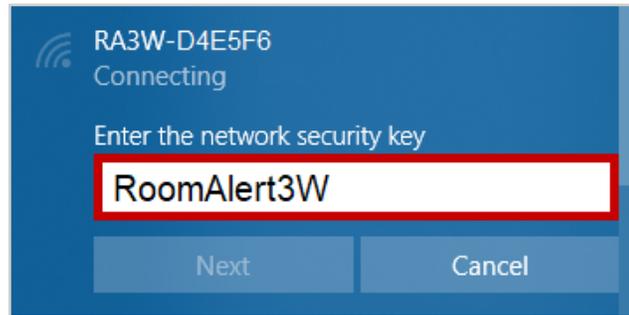


## Room Alert 3 Wi-Fi (RA3W-ES0-BAS)

- This will automatically disconnect your computer from your normal wireless network. You'll reconnect to it later in this process.
- When you're asked for the Room Alert 3 Wi-Fi's network security key, enter the following key, which is case-sensitive:

### **RoomAlert3W**

- Then select **OK** or **Next**.



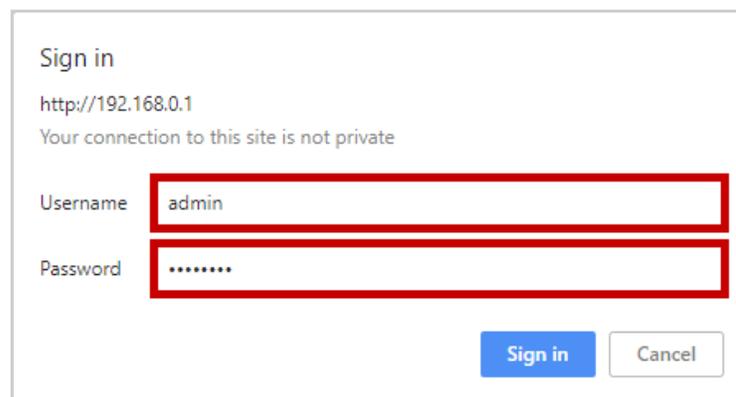
## **B. Open The Room Alert 3 Wi-Fi's Web Interface**

- Open a web browser, and enter the Room Alert 3 Wi-Fi's default web interface address (its "soft AP") in the address bar:

**192.168.0.1**

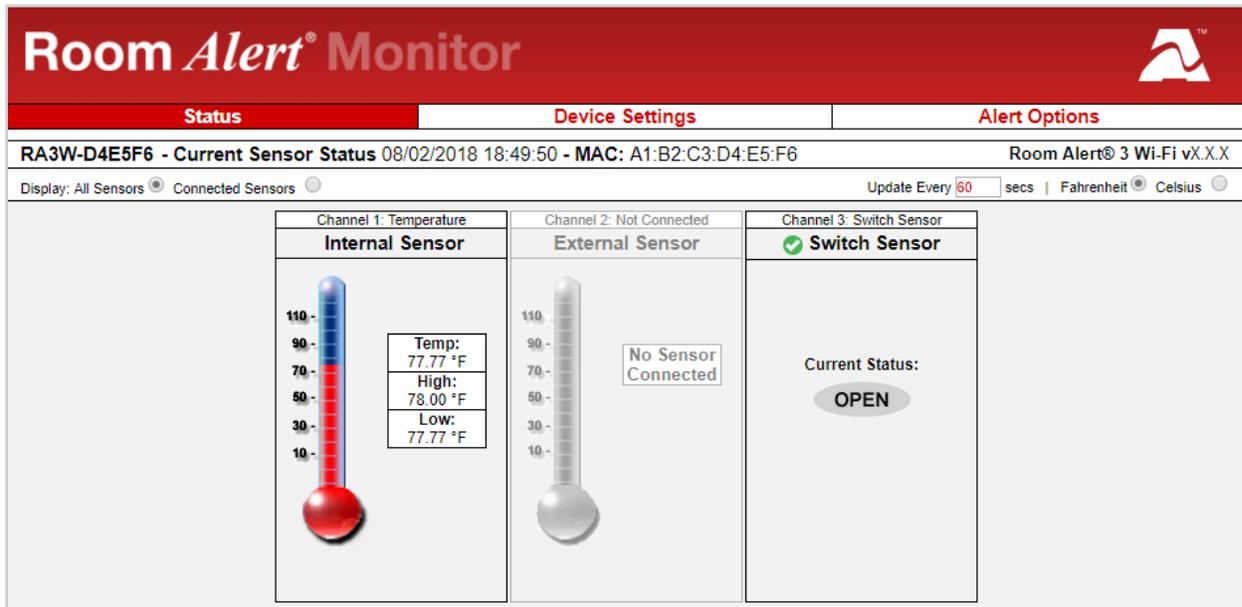


- When you are asked for login credentials, enter the Room Alert 3 Wi-Fi's default username and password:
  - Username: **admin**
  - Password: **PASSWORD**



## Room Alert 3 Wi-Fi (RA3W-ES0-BAS)

- The Room Alert 3 Wi-Fi's interface will now open to the Status page at its "soft AP":

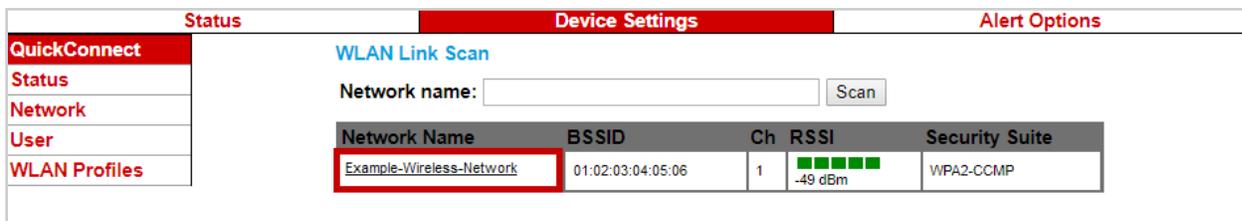


### C. Connect The Room Alert 3 Wi-Fi To Your Wireless Network

Once you are in the Room Alert 3 Wi-Fi's interface, navigate to **Device Settings** → **QuickConnect** in order to configure the device to use your wireless network.

- In *Network Name*, select your Wifi network's network name (also called its SSID) from the list of networks.

In this example, we are choosing "Example-Wireless-Network."



#### TIP

If your wireless network's name is hidden, type it (with correct capitalization) in the *Network name* field shown above; then select it when it appears in the list.

- A "WLAN Profile" for your network will automatically appear. Options on this menu vary depending your Wi-Fi network's security.
  - If you are required to, enter your Wi-Fi network's password in the *Password* field.
  - Select **Apply** to temporarily save your changes.

## Room Alert 3 Wi-Fi (RA3W-ES0-BAS)

Status	Device Settings	Alert Options										
<b>QuickConnect</b>	<b>WLAN Profile "Example-Wireless-Network"</b>											
Status												
Network												
User												
WLAN Profiles												
	<table border="1"><thead><tr><th colspan="2">Connect To</th></tr></thead><tbody><tr><td>Network Name (SSID):</td><td>Example-Wireless-Network</td></tr><tr><td>BSSID:</td><td>01:02:03:04:05:06</td></tr><tr><td>Security Suite:</td><td>WPA2-CCMP</td></tr><tr><td>Signal Strength:</td><td>-49 dBm</td></tr></tbody></table>		Connect To		Network Name (SSID):	Example-Wireless-Network	BSSID:	01:02:03:04:05:06	Security Suite:	WPA2-CCMP	Signal Strength:	-49 dBm
Connect To												
Network Name (SSID):	Example-Wireless-Network											
BSSID:	01:02:03:04:05:06											
Security Suite:	WPA2-CCMP											
Signal Strength:	-49 dBm											
	<table border="1"><thead><tr><th colspan="2">Security</th></tr></thead><tbody><tr><td>Key Type:</td><td><input checked="" type="radio"/> Passphrase <input type="radio"/> Hex</td></tr><tr><td>Password:</td><td>.....</td></tr></tbody></table>		Security		Key Type:	<input checked="" type="radio"/> Passphrase <input type="radio"/> Hex	Password:	.....				
Security												
Key Type:	<input checked="" type="radio"/> Passphrase <input type="radio"/> Hex											
Password:	.....											
	<table border="1"><thead><tr><th colspan="2">Advanced</th></tr></thead><tbody><tr><td colspan="2">▶</td></tr></tbody></table>		Advanced		▶							
Advanced												
▶												
	<input type="button" value="Apply"/> <input type="button" value="Test Connection"/> <input type="button" value="Submit"/>											

- Then select **Submit** to commit your changes to the device.

Status	Device Settings	Alert Options										
<b>QuickConnect</b>	<b>WLAN Profile "Example-Wireless-Network"</b>											
Status												
Network												
User												
WLAN Profiles												
	<div style="border: 1px solid gray; padding: 5px;"><p>Changed WLAN Profile New_Profile Instance to "Example-Wireless-Network". Changed WLAN Profile New_Profile Basic Network Name to "Example-Wireless-Network". Changed WLAN Profile New_Profile Security Suite to "WPA2". Changed WLAN Profile New_Profile Security WPAX Passphrase to "&lt;Configured&gt;". Changed WLAN Profile New_Profile Security WPAX Encryption to "CCMP".</p><p>The changes have been successfully applied. <b>WARNING: The changes will not persist after reboot unless you submit.</b></p></div>											
	<table border="1"><thead><tr><th colspan="2">Basic</th></tr></thead><tbody><tr><td>Network Name:</td><td>Example-Wireless-Network</td></tr><tr><td>State:</td><td><input checked="" type="radio"/> Enabled <input type="radio"/> Disabled</td></tr></tbody></table>		Basic		Network Name:	Example-Wireless-Network	State:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled				
Basic												
Network Name:	Example-Wireless-Network											
State:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled											
	<table border="1"><thead><tr><th colspan="2">Security</th></tr></thead><tbody><tr><td>Suite:</td><td>WPA2 ▼</td></tr><tr><td>WPAX Key Type:</td><td>Passphrase ▼</td></tr><tr><td>WPAX Passphrase:</td><td>.....</td></tr><tr><td>WPAX Encryption:</td><td><input checked="" type="checkbox"/> CCMP <input type="checkbox"/> TKIP</td></tr></tbody></table>		Security		Suite:	WPA2 ▼	WPAX Key Type:	Passphrase ▼	WPAX Passphrase:	.....	WPAX Encryption:	<input checked="" type="checkbox"/> CCMP <input type="checkbox"/> TKIP
Security												
Suite:	WPA2 ▼											
WPAX Key Type:	Passphrase ▼											
WPAX Passphrase:	.....											
WPAX Encryption:	<input checked="" type="checkbox"/> CCMP <input type="checkbox"/> TKIP											
	<table border="1"><thead><tr><th colspan="2">Advanced</th></tr></thead><tbody><tr><td>TX Power Maximum:</td><td>17 dBm</td></tr><tr><td>Power Management:</td><td><input type="radio"/> Enabled <input checked="" type="radio"/> Disabled</td></tr></tbody></table>		Advanced		TX Power Maximum:	17 dBm	Power Management:	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled				
Advanced												
TX Power Maximum:	17 dBm											
Power Management:	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled											
	<input type="button" value="Test Connection"/> <input type="button" value="Submit"/>											

- Your Room Alert 3 Wi-Fi will automatically obtain an IP address on your network. Notice that the "L" LED on the Room Alert lights solid when it successfully connects.



### D. Check Your Room Alert 3 Wi-Fi's IP Address

You can now check the Room Alert 3 Wi-Fi's IP address by navigating to **Device Settings** → **Status**.

Status	Device Settings	Alert Options
<b>QuickConnect</b>		
<b>Status</b>		
<b>Network</b>		
<b>User</b>		
<b>WLAN Profiles</b>		
	<b>Product Information</b>	
	<b>Firmware Version:</b>	X.X.X/1.0
	<b>Build Date:</b>	Mar 2 2018 (14:59:06)
	<b>Serial Number:</b>	A1B2C3D4E5F6
	<b>Permanent Config:</b>	saved
	<b>Network Settings</b>	
	<b>MAC Address:</b>	A1:B2:C3:D4:E5:F6
	<b>Interface ap0</b>	
	<b>State:</b>	Up
	<b>SSID:</b>	RA3W-D4E5F6
	<b>Security Suite:</b>	WPA2
	<b>IP Address:</b>	192.168.0.1/24
	<b>Interface wlan0</b>	
	<b>Connection State:</b>	Connected
	<b>Active WLAN Profile:</b>	Example-Wireless-Network
	<b>IP Address:</b>	192.168.88.77/24
	<b>Default Gateway:</b>	192.168.88.1
	<b>Hostname:</b>	
	<b>Primary DNS:</b>	8.8.8.8
	<b>Secondary DNS:</b>	68.105.28.16

- In this example, the IP address is 192.168.88.77

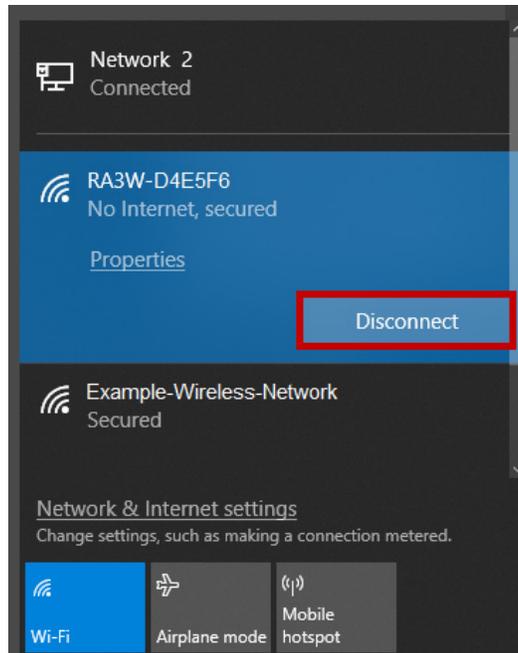
#### TIP

You can also find the Room Alert 3W's IP address listed in your Room Alert Account. For more information, please see our Frequently Asked Question, [How To Discover AVTECH Devices With RoomAlert.com](#).

### E. Disconnect From Your Room Alert 3 Wi-Fi's Wireless Access Point

- Disconnect from the Room Alert 3 Wi-Fi's wireless access point by selecting its name (in this example, **RA3W-D4E5F6**) and **Disconnect** in your wireless network list.

## Room Alert 3 Wi-Fi (RA3W-ES0-BAS)



- Once you disconnect from the Room Alert 3 Wi-Fi's wireless access point:
  - Your computer should automatically reconnect to your regular Wi-Fi network.
  - The Room Alert 3 Wi-Fi will continue to appear in your available networks list. You may manually reconnect to its access point at 192.168.0.1 if necessary by selecting its name and then **Connect**.

### Step 3: Connect Additional Components

If you purchased additional components that are compatible, connect them according to the instructional material included with them.

## How To Use Room Alert 3 Wi-Fi's Web Interface

You may configure your Room Alert 3 Wi-Fi through its built-in web interface. To access the interface, you may either:

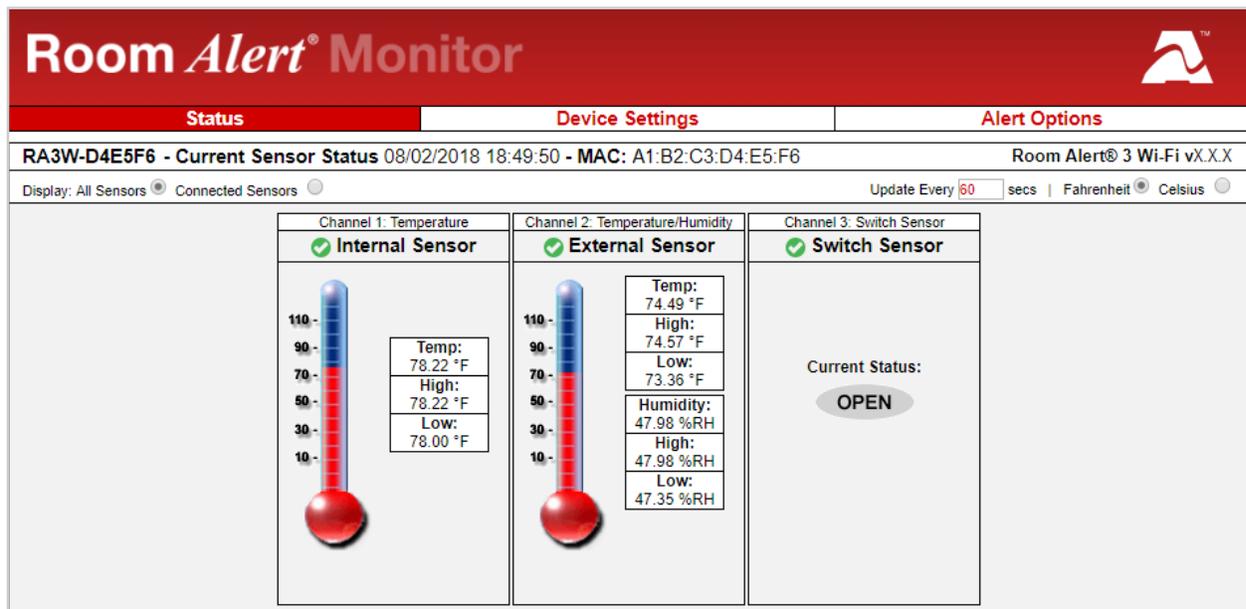
- Type the IP address of your Room Alert 3 Wi-Fi directly into the address bar of your web browser.
- Select your Room Alert 3 Wi-Fi in the Device Discovery utility and click the **Web** button.
- Select your Room Alert 3 Wi-Fi in the Device Manager software and click the **Open Web** button.
- Select your Room Alert monitor in your [RoomAlert.com](http://RoomAlert.com) account and click the **Device Interface** button.

Your Room Alert 3 Wi-Fi's web interface has 3 tabs:

- Status
- Device Settings
- Alert Options

### Status

To view your Room Alert 3 Wi-Fi's current sensor/status, select **Status** in the navigation bar at the top of your screen.



## Room Alert 3 Wi-Fi (RA3W-ES0-BAS)

### Banner & Header

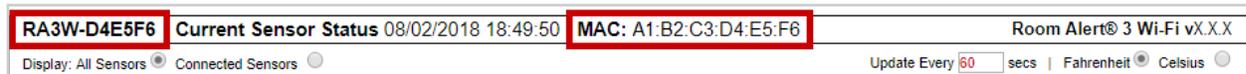
At the top of the page runs the red Room Alert banner.



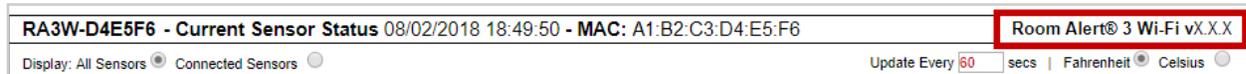
- You may visit [AVTECH.com](http://AVTECH.com) by selecting the AVTECH logo in the banner.
- You may visit [RoomAlert.com](http://RoomAlert.com) by clicking on "Room Alert Monitor" in the banner.

Below the Status tab is the *Current Sensor Status Bar*, where you may view basic information about your Room Alert 3 Wi-Fi and make temporary adjustments to the sensor display.

- You may find your Room Alert 3 Wi-Fi's name and MAC address here.

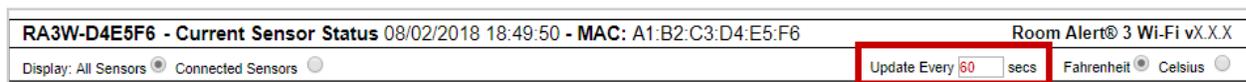


- To determine if your Room Alert 3 Wi-Fi's firmware is current, you may click **Room Alert 3 Wi-Fi vX.X.X** at the right.

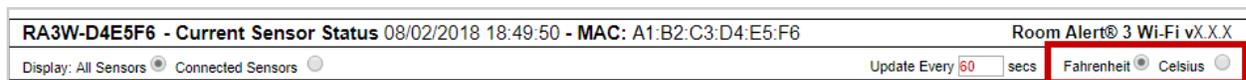


**TIP** Your Room Alert 3 Wi-Fi must be connected to the internet to check firmware versions.

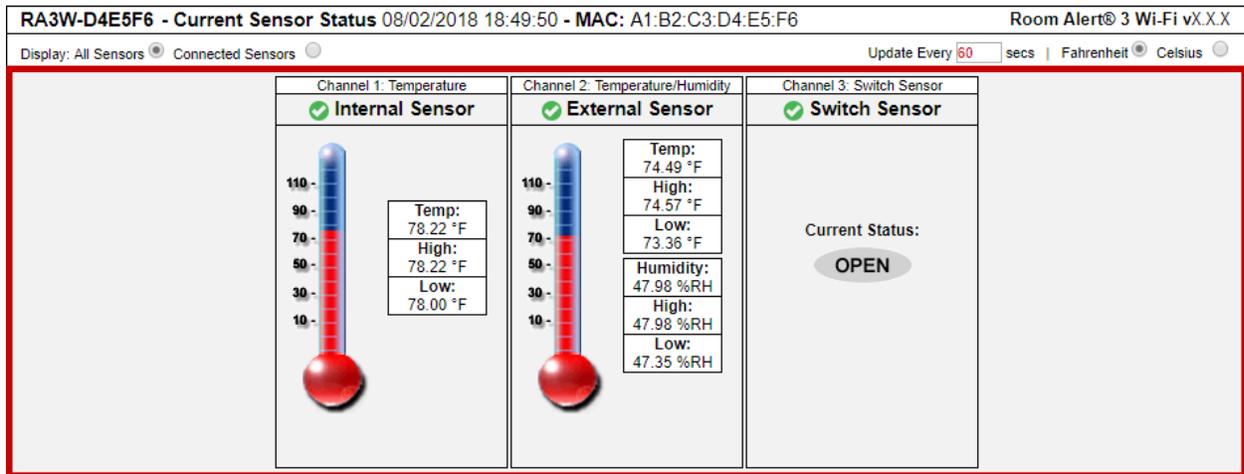
- To temporarily modify the refresh interval of the Status screen, which is 60 seconds by default, you may enter a value as low as 5 seconds in the *Update Every* field. Click outside the field to temporarily commit the change.



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



### Sensor Display Area

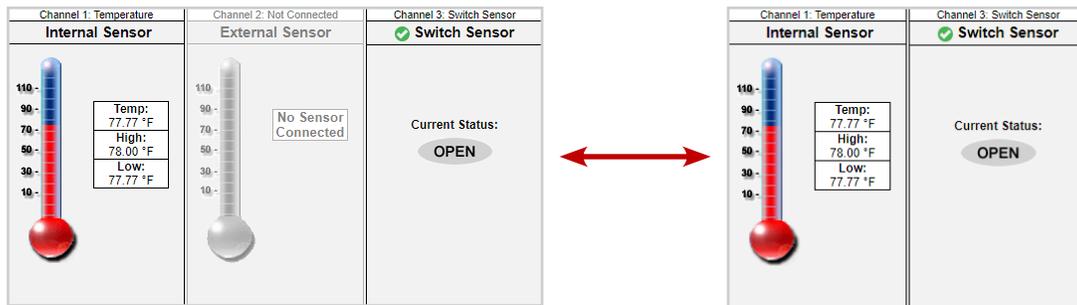


In the main viewing pane of the Status tab is the Sensor Display Area. Here you may view the current readings for your sensors, which are displayed left to right as follows:

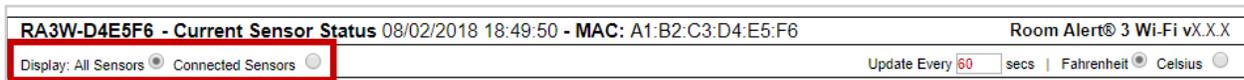
Channel 1: Internal Temperature Sensor      Channel 2: External Digital Sensor      Channel 3: External Switch Sensor

### Display All Sensors / Connected Sensors

If you have no external digital sensor connected, you may temporarily hide Channel 2.



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



2. To toggle the view back to all 3 sensor channels, click **All Sensors**.

***Alarm Status Icons***

Status icons are displayed for sensors that have thresholds set:

- ✔ Green circle with "✓" mark.....Sensor is in a clear state.
- ✘ Red circle with "X" mark.....Sensor is in an alarm state.
- No status icon.....Sensor has no thresholds set.

## Device Settings

### QuickConnect

Navigate to **Device Settings** → **QuickConnect** to open the *QuickConnect* screen.

Here, you may select the wireless network you wish to connect the Room Alert 3 Wi-Fi to.

For instructions, please refer back to [Step 2: Configure Your Room Alert 3 Wi-Fi's Network Settings](#) on page 3 in this manual.

Status	Device Settings	Alert Options										
<b>QuickConnect</b>	WLAN Link Scan											
Status	Network name: <input type="text"/> <input type="button" value="Scan"/>											
Network	<table border="1"> <thead> <tr> <th>Network Name</th> <th>BSSID</th> <th>Ch</th> <th>RSSI</th> <th>Security Suite</th> </tr> </thead> <tbody> <tr> <td>Example-Wireless-Network</td> <td>01:02:03:04:05:06</td> <td>1</td> <td> <div style="display: flex; gap: 2px;"> <div style="width: 10px; height: 10px; background-color: green;"></div> </div>                     -49 dBm                 </td> <td>WPA2-CCMP</td> </tr> </tbody> </table>		Network Name	BSSID	Ch	RSSI	Security Suite	Example-Wireless-Network	01:02:03:04:05:06	1	<div style="display: flex; gap: 2px;"> <div style="width: 10px; height: 10px; background-color: green;"></div> </div> -49 dBm	WPA2-CCMP
Network Name	BSSID	Ch	RSSI	Security Suite								
Example-Wireless-Network	01:02:03:04:05:06	1	<div style="display: flex; gap: 2px;"> <div style="width: 10px; height: 10px; background-color: green;"></div> </div> -49 dBm	WPA2-CCMP								
User												
WLAN Profiles												

### Status

Navigate to **Device Settings** → **Status** to open the *WLAN Status* screen.

Here you may see the device's current network information, such as its current IP address, default gateway and domain name server (DNS).

Status	Device Settings	Alert Options
<b>QuickConnect</b>	Product Information	
Status	Firmware Version: X.X.X/1.0	
Network	Build Date: Mar 2 2018 (14:59:06)	
User	Serial Number: A1B2C3D4E5F6	
WLAN Profiles	Permanent Config: saved	
	Network Settings	
	MAC Address: A1:B2:C3:D4:E5:F6	
	Interface ap0	
	State: Up	
	SSID: RA3W-D4E5F6	
	Security Suite: WPA2	
	IP Address: 192.168.0.1/24	
	Interface wlan0	
	Connection State: Connected	
	Active WLAN Profile: Example-Wireless-Network	
	IP Address: 192.168.88.77/24	
	Default Gateway: 192.168.88.1	
	Hostname:	
	Primary DNS: 8.8.8.8	
	Secondary DNS: 68.105.28.16	

## Network

Navigate to **Device Settings** → **Network** to open the *Network* screen. You may view and configure your Room Alert’s soft access point and wireless network settings on this page.

### Wireless Local Area Network (wlan0)

To view your Room Alert 3 Wi-Fi’s network settings:

- Select **wlan0** + **Interface** + **Status**. Here, you’ll see the Room Alert 3 Wi-Fi’s IP settings.

The screenshot shows the 'Device Settings' tab with 'wlan0' selected under 'Interface'. The 'Status' link is highlighted. Below, the 'Interface wlan0 Status' table is displayed.

Property	Status
Status:	Link up
MAC Address:	A1:B2:C3:D4:E5:F6
	[ Renew ]
	Current After Reboot
State:	Enabled Enabled
DHCP Client:	Enabled Enabled
IP Address:	192.168.88.77/24 (DHCP)
Default Gateway:	192.168.88.1 (DHCP)
Hostname:	
Primary DNS:	8.8.8.8 (DHCP)
Secondary DNS:	<None> (DHCP)
MSS:	1460 bytes 1460 bytes

- Select **wlan0** + **Link** + **Status**. Here, you’ll see the wireless network settings.

The screenshot shows the 'Device Settings' tab with 'wlan0' selected under 'Interface'. The 'Link' link is highlighted, and the 'Status' link is also visible. Below, the 'WLAN wlan0 Status' table is displayed.

Property	Status
Connection State:	Connected
BSSID:	01:02:03:04:05:06
SSID:	Example-Wireless-Network
Active WLAN Profile:	Example-Wireless-Network
Encryption:	CCMP
Security Suite:	WPA2
Channel:	1
RSSI:	-49 dBm

## Room Alert 3 Wi-Fi (RA3W-ES0-BAS)

You may set a static IP address for your Room Alert 3 Wi-Fi on the *Network* page by following these steps:

Status	Device Settings	Alert Options																
<a href="#">QuickConnect</a>	<p>ap0 <b>wlan0</b></p> <hr/> <p><b>Interface</b> Link</p> <hr/> <p>Status <b>Configuration</b></p>																	
<a href="#">Status</a>																		
<b>Network</b>																		
<a href="#">User</a>																		
<a href="#">WLAN Profiles</a>																		
<p>Interface wlan0 Configuration</p> <table border="1"><tr><td>State:</td><td><input checked="" type="radio"/> Enabled <input type="radio"/> Disabled</td></tr><tr><td>DHCP Client:</td><td><input type="radio"/> Enabled <input checked="" type="radio"/> Disabled</td></tr><tr><td>IP Address:</td><td><input type="text" value="192.168.88.31"/></td></tr><tr><td>Default Gateway:</td><td><input type="text" value="192.168.88.1"/></td></tr><tr><td>Hostname:</td><td><input type="text"/></td></tr><tr><td>Primary DNS:</td><td><input type="text" value="8.8.8.8"/></td></tr><tr><td>Secondary DNS:</td><td><input type="text" value="&lt;None&gt;"/></td></tr><tr><td>MSS:</td><td><input type="text" value="1460"/> bytes</td></tr></table> <p><b>Submit</b></p>			State:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled	DHCP Client:	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled	IP Address:	<input type="text" value="192.168.88.31"/>	Default Gateway:	<input type="text" value="192.168.88.1"/>	Hostname:	<input type="text"/>	Primary DNS:	<input type="text" value="8.8.8.8"/>	Secondary DNS:	<input type="text" value="&lt;None&gt;"/>	MSS:	<input type="text" value="1460"/> bytes
State:	<input checked="" type="radio"/> Enabled <input type="radio"/> Disabled																	
DHCP Client:	<input type="radio"/> Enabled <input checked="" type="radio"/> Disabled																	
IP Address:	<input type="text" value="192.168.88.31"/>																	
Default Gateway:	<input type="text" value="192.168.88.1"/>																	
Hostname:	<input type="text"/>																	
Primary DNS:	<input type="text" value="8.8.8.8"/>																	
Secondary DNS:	<input type="text" value="&lt;None&gt;"/>																	
MSS:	<input type="text" value="1460"/> bytes																	

1. Select **wlan0** + **Interface** + **Configuration**.
2. In *State*, leave the default **Enabled** selected.
3. In *DHCP Client*, select **Disabled**.
4. In *IP Address*, enter the static IP. In this example, the static IP is 192.168.88.31.
5. In *Default Gateway*, enter the default gateway. In this example, the default gateway is 192.168.88.1.
6. You may enter a hostname if you wish. (This hostname will appear in the *Device Settings* → *Status* table and in the *Device Settings* → *Network* → *wlan0* table.)
7. In *Primary DNS*, enter the domain name server you want used by default. In this example, the DNS is 8.8.8.8.
8. In *Secondary DNS*, you may enter a back-up DNS if you wish. In this example, we have not configured one.
9. Typically, you can leave the *MSS* at the default, 1460 bytes.
10. Finally select **Submit** to commit your changes to the device.

## Room Alert 3 Wi-Fi (RA3W-ES0-BAS)

### User

Navigate to **Device Settings** → **User** to open the *User* screen.

You may change the password for the web interface here. (The default password is **PASSWORD.**)

Status	Device Settings	Alert Options
QuickConnect	User Management	
Status	View or Edit	Delete
Network		
User	<u>admin</u>	<input type="checkbox"/>
WLAN Profiles		

1. First select **admin**.

Status	Device Settings	Alert Options
QuickConnect	User admin Configuration	
Status	Password: <input type="password"/>	
Network		
User	<input type="submit" value="Submit"/>	
WLAN Profiles		

2. Then in *Password*, enter your new password.

3. Select **Submit** to save your changes.

The next time you log in to your Room Alert 3 Wi-Fi web interface, enter these credentials:

**Username:** admin

**Password:** YourNewPassword

### NOTE

You may not change the username for your Room Alert 3 Wi-Fi's web interface. The username is always "admin."

## WLAN Profiles

Navigate to **Device Settings** → **WLAN Profiles** to open the *WLAN Profiles* screen.



You may add or delete network connections here.

To delete a network connection from your WLAN Profile list:

1. Select **Delete**.
2. Select **Apply** to temporarily save your changes.
3. Select **Submit** to commit your changes to the device.

### TIP

If you are deleting the only wireless network in your list, skip “Apply” and immediately select **Submit**.

## Alert Options

### Navigating Alert Options

Alert Options has the following sub-tabs shown in the navigation bar at the top of your screen.

- Sensors
- SMTP
- Advanced



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

### Saving Settings

To save a setting in *Alert Options*, use the **Save Settings** button at the bottom of the page. After you select the *Save Settings* button, your Room Alert 3 Wi-Fi will automatically reboot and commit your changes.



### NOTE

You can only save settings in one tab at a time. For example, if you add custom sensor labels in the *Sensors* tab, you'll need to save those settings before moving to the *SMTP* tab.

## Room Alert 3 Wi-Fi (RA3W-ES0-BAS)

### Sensors

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

You may configure alert thresholds for your Room Alert 3 Wi-Fi's sensors in this screen. Your Room Alert 3 Wi-Fi 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](https://www.avtech.com).

Internal Sensor Alarm Configuration		External Sensor Alarm Configuration		
Sensor Type: Temperature		Sensor Type: Temp/Humidity		
Sensor Label	Alarm On	High	Low	Adjust
Internal Sensor	Temperature (°F)	0	0	0

External Sensor Alarm Configuration		External Sensor Alarm Configuration		
Sensor Type: Temp/Humidity		Sensor Type: Temp/Humidity		
Sensor Label	Alarm On	High	Low	Adjust
External Sensor	Temperature (°F)	0	0	0
<input type="checkbox"/> Monitor Heat Index		Humidity (%RH)	0	0

### General Alarm Configuration

#### General Alarm Configuration

Trigger Alarm If Sensor Is Disconnected?

### Trigger Alarm If Sensor Is Disconnected?

You may configure your Room Alert 3 Wi-Fi to send an alert if its external digital sensor is disconnected from the unit.

1. Check **Trigger Alarm If Sensor Is Disconnected?** if you want to receive an alert if the external digital sensor becomes disconnected. This check box is blank by default.
2. Select **Save Settings** at the bottom of the page. Your Room Alert will automatically reboot and commit your changes.

### **Alarm Thresholds (Internal and External Digital Sensor Alarm Configuration)**

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



Room Alert 3 Wi-Fi has one internal digital Temperature Sensor. You can connect one external digital sensor.

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

Internal Sensor Alarm Configuration				
Sensor Type: Temperature				
Sensor Label	Alarm On	High	Low	Adjust
Server Rm Temp	Temperature (°F)	79	61	0

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

**TIP** Room Alert sensor labels may be up to 15 characters and can include the following: letters, numbers, spaces, hyphens (-), underscores (\_) and periods (.).

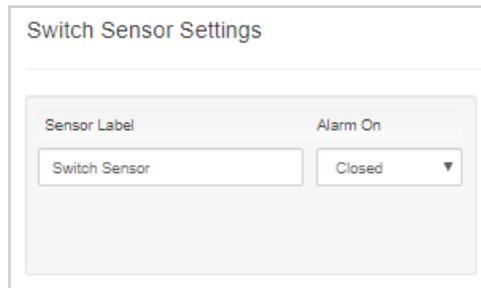
2. The *Alarm On* field automatically fills in, in this case with “Temperature (F).”

**TIP** Refer to [Advanced](#) on page 24 in this manual for instructions on setting the default temperature scale.

3. In *High* and *Low*, you may leave the default, 0, or enter values for high and low temperature thresholds. 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. Select **Save Settings** at the bottom of the page. Your Room Alert will automatically reboot and commit your changes.

### **External 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.



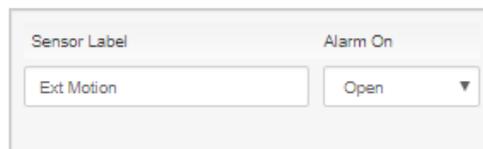
The screenshot shows a form titled "Switch Sensor Settings". It contains two input fields: "Sensor Label" with the value "Switch Sensor" and "Alarm On" with a dropdown menu set to "Closed".

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 check our Frequently Asked Question, [What Open & Closed States Mean In AVTECH Switch Sensors](#).

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



The screenshot shows the same "Switch Sensor Settings" form, but with the "Sensor Label" field containing "Ext Motion" and the "Alarm On" dropdown menu set to "Open".

1. In *Sensor Label*, you may leave the default, "Switch 1" or enter something more descriptive, such as "Ext Motion" or "Main Entry."

**TIP** Room Alert sensor labels may be up to 15 characters and can include the following: letters, numbers, spaces, hyphens (-), underscores (\_) and periods (.).

2. In *Alarm On*, select the alarm state (**Open** or **Closed**). In our example, the alarm state is **Open**.
3. Select **Save Settings** at the bottom of the page. Your Room Alert will automatically reboot and commit your changes.

**TIP** If you're not using the switch sensor, choose **Disabled** from the *Alarm On* drop-down menu to avoid confusion or false alerts.

## Room Alert 3 Wi-Fi (RA3W-ES0-BAS)

### SMTP Email

You may configure your Room Alert 3 Wi-Fi to send alerts via email and email-to-SMS.

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

The screenshot shows the 'Email Settings' screen in the Room Alert 3 Wi-Fi interface. The top navigation bar has three tabs: 'Status', 'Device Settings', and 'Alert Options'. Under 'Alert Options', there are three sub-tabs: 'Sensors', 'SMTP', and 'Advanced'. The 'SMTP' tab is selected and highlighted in red. The main content area is titled 'Email Settings' and contains the following configuration options:

- How To Set Up Email In Room Alert (FAQ)** (link)
- Email Enabled**:
- Email Footer Enabled**:
- Use SMS**:
- Mail Server:**
  - Domain Name/IP**:
  - Port**:
  - Timeout**:
- Return Address (From)**:
- Email Recipients (Separated By Comma)**:
- Display URL Enabled**:
- Display URL**:
- Send Test Email** (button)
- Authentication (optional)**
  - Enable Authentication**:
  - Username**:
  - Password**:

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 SMS** to send a shorter email with a reduced character count.
4. *Mail Server:*
  - In *Domain Name/IP*, enter the domain name or IP address of your mail server.
  - In *Port*, enter your mail server's SMTP port. The default is 25, a commonly-used port.

## Room Alert 3 Wi-Fi (RA3W-ES0-BAS)

- In *Timeout*, you may leave the default, 5 seconds, or enter another interval.
5. In *Return Address (From)*, 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: 1234567890@ATT.txt.net
    - Addresses separated by commas: ITMgr@Example.com,1234567890@ATT.txt.net, etc.
  7. *Display URL* 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 **Display 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 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* and *Password*, enter a valid username and password for your mail server that will facilitate authentication.

**TIP** You password cannot be more than 11 alphanumeric characters.

10. Select **Save Settings** at the 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*.

## Advanced

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

The screenshot shows the 'Advanced Settings' screen. At the top, there are three tabs: 'Status', 'Device Settings', and 'Alert Options'. Under 'Alert Options', there are three sub-tabs: 'Sensors', 'SMTP', and 'Advanced' (which is highlighted with a red box). Below the tabs, the 'Advanced Settings' section is displayed. It includes a 'Reset to Defaults' link in the top right. The settings are grouped into sections: 'General' with 'Temperature Scale' set to 'Fahrenheit'; 'Date & Time Configuration' with 'Time Zone' set to '(GMT) Greenwich Mean Time (London, Lisbon)', 'Time Display' set to '24 hour', and 'Time Format' set to 'MM/DD/YY Hour:Minute:Second'; and 'Time Server' with 'IP/Host Name' set to 'time.nist.gov' and 'Auto Refresh' set to '12 Hours'. There is also an 'Update Now' button and a checkbox for 'Enable Daylight Saving' with a sub-option 'Adjust For Daylight Saving Time (+1 hr)'.

## General

In *Temperature Scale*, you may choose **Fahrenheit** or **Celsius** from the drop-down list. Fahrenheit is the default.

## Time & Date Configuration

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 or DD/MM/YY date format from the drop-down list. Month first (MM/DD/YY) is the default.
4. Select **Enable Daylight Savings** if you would like your Room Alert time setting to compensate by +1 hour for daylight savings time.

## Time Server

5. In *IP/Host Name*, you may leave Room Alert's default Network Time Protocol (NTP) server, time.nist.gov, or enter another time server IP address.
6. In *Time Server Auto Refresh*, you may select how often Room Alert automatically synchronizes with your time server.
  - You may leave the default, **12 Hours**, or choose another interval, as frequent as 10 minutes, from the drop-down list.

## Room Alert 3 Wi-Fi (RA3W-ES0-BAS)

- You may manually synchronize the time by selecting **Update Now**. Clicking this button does not affect the *Auto Refresh* interval.
7. Select **Save Settings** at the bottom of the page. Your Room Alert will automatically reboot and commit your changes.

Room Alert 3 Wi-Fi (RA3W-ES0-BAS)

## For More Information...

### Visit our Support Center.

Go to <https://AVTECH.com/Support/> to view our collection of:

- [Frequently Asked Questions](#)
- [Installation Notes](#)
- [Product Tours](#)
- and more

### Find us on YouTube.

Go to the [AVTECH Software, Inc. YouTube Channel](#), 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 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](#)

[How To Trigger Push To RoomAlert.com More Frequently Than The Default Intervals](#)

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