

**AVTECH's Light Tower & Relay Adapter (LTA)** expands the capacity of your Room Alert monitor. With it, you gain a built-in relay port to control 1 electrical device and a custom port to connect and control:

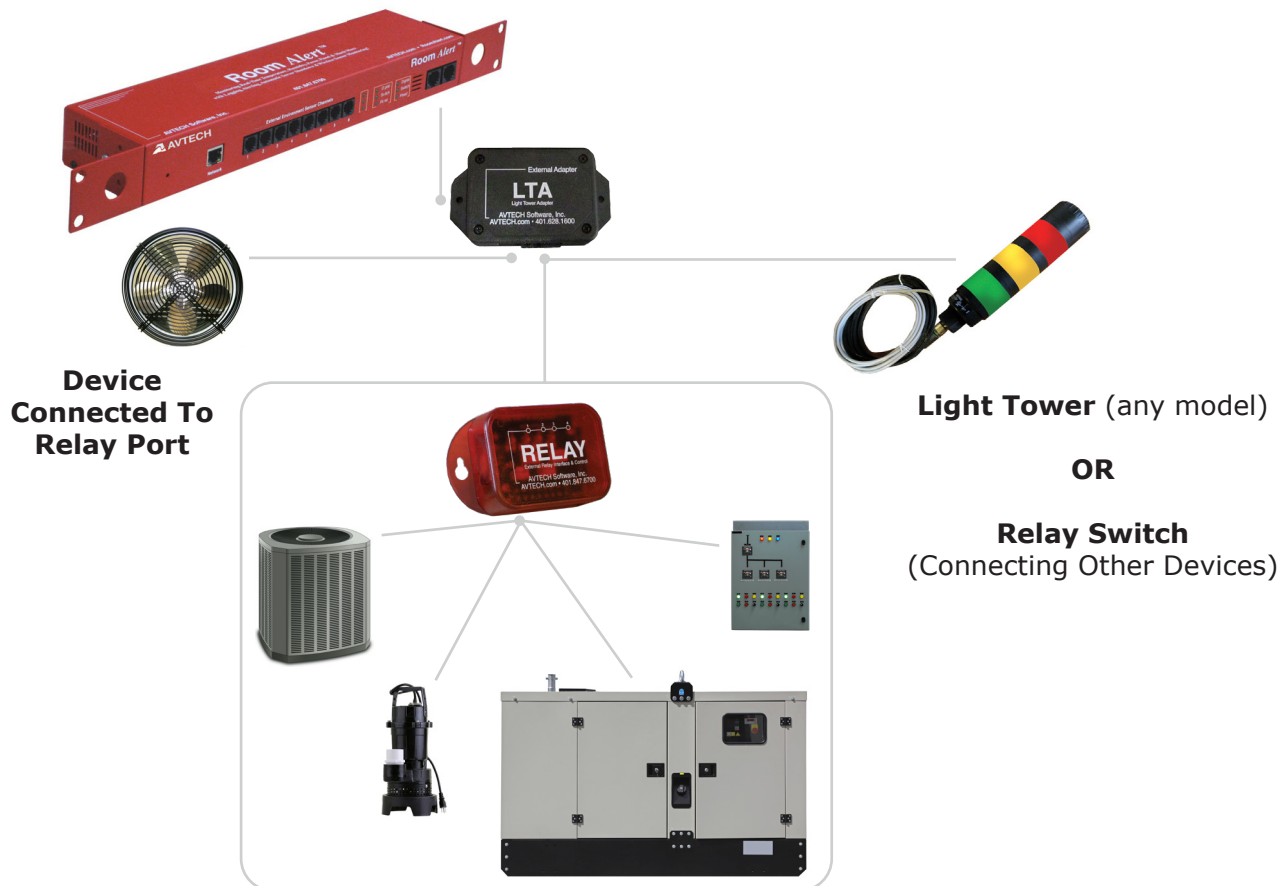
- 1 AVTECH Light Tower

OR

- 1 AVTECH Relay Switch Sensor  
+ 4 electrical devices



Sample Light Tower & Relay Adapter product configurations are shown below. **Note that, depending on your device's electrical load, you may need a 3rd-party relay between your device and AVTECH's Relay Switch. In that case, AVTECH's Relay Switch toggles the 3rd-party relay, and the 3rd-party relay toggles your device.**



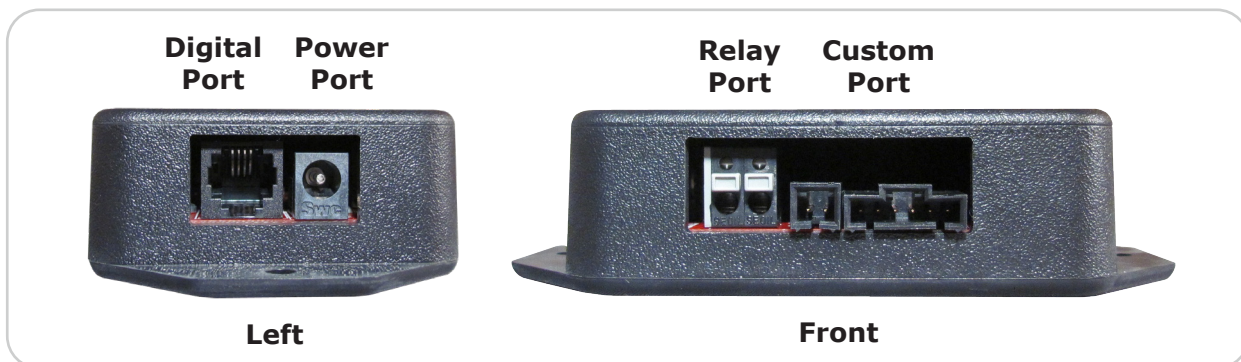
With Room Alert's web interface or AVTECH's Room Alert Manager software, you may automatically or manually turn on & off electrical devices—such as the ones shown here—and a Light Tower's individual LEDs and audio alarm (if available).

For more information about AVTECH's Light Towers and/or Relay Switch Sensor, please see their Installation Notes, visit [AVTECH.com](http://AVTECH.com) or contact a Product Specialist.

## Light Tower & Relay Adapter Package Contents

- One (1) Light Tower & Relay Adapter
- One (1) 25' RJ-11 cable
- One (1) 5V power adapter
- Two (2) mounting screws

## Light Tower & Relay Adapter



## Install Your Light Tower & Relay Adapter



Do not use this adapter in hazardous (classified) locations or life safety applications.

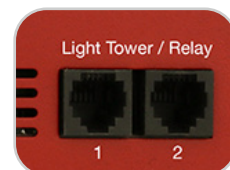
### Step 1: Mount your Light Tower & Relay Adapter.

Mount your Light Tower & Relay Adapter with screws through the flange holes, secure it with Velcro or simply place it on a flat surface.

### Step 2: Connect your Light Tower & Relay Adapter to your Room Alert.

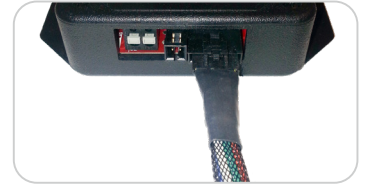
Your Light Tower & Relay Adapter comes with a 25' RJ-11 cable.

1. Connect one end of the RJ-11 cable to the digital port on the Light Tower & Relay Adapter.
2. Connect the other end to the Light Tower/Relay port on the compatible Room Alert or to the digital port on the Room Alert 3S or 3E model. Try to avoid running the cable near large electromagnetic devices or fluorescent lights, which produce EMI that can interfere with the signal.



**Step 3: Connect your Light Tower & Relay Adapter to your Light Tower or Relay Switch Sensor.**

Connect the Light Tower or Relay Switch's custom cable to the Light Tower & Relay Adapter's custom port.



**Step 4: Connect the built-in relay on your Light Tower & Relay Adapter to a low-voltage device.**



Disconnect power to the electrical device before beginning.

Do not connect the relay outputs on AVTECH products to live circuits of over 125VAC or 24VDC.

Use an appropriate wire to connect the relay ports to your electrical device; consult an electrician if you are unsure if the wire is compatible with the electrical load or device.

Use an appropriate wire or cable to connect the relay port on the adapter to your electrical device. If you are unsure if the wire is compatible with the electrical load or device, contact an electrician.

1. Separate and strip the free ends of the wire. Expose about ¼" of wire.
2. Connect one end of the wire to the relay port on the Light Tower & Relay Adapter. The port's contacts are non-polarized, so you may insert either side of the wire into either contact.
3. Connect the other end to the appropriate contacts on your electrical device.

**Step 5: Connect your Light Tower & Relay Adapter to a power source.**



Use only the AVTECH 5V power adapter. Others may damage the sensor.

1. Connect the included power adapter to the power port on the Light Tower & Relay Adapter.
2. Then insert the power adapter plug into a power source.



## Sensor Features & Specifications

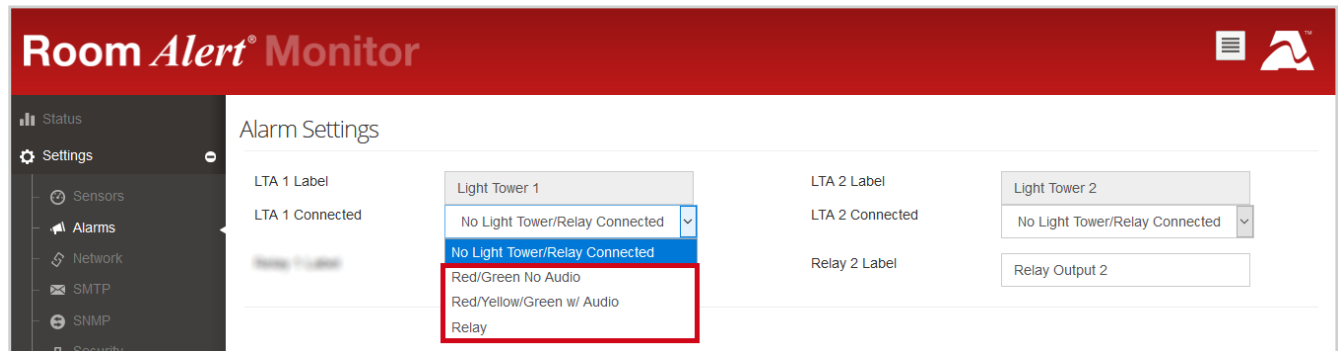
<b>Environment Condition Monitored</b>	Light or relay output to compatible sensors/devices
<b>Type Of Sensor</b>	Adapter; connects sensors/devices to Room Alert
<b>Power Supply</b>	AVTECH 5V power adapter
Included	Yes
<b>Sensor Cable Type</b>	
<i>Digital Port</i>	RJ-11 (standard straight-through telephone cord)
Included	Yes
Length	25'
Maximum Extendible Length	100'
<i>Custom Port</i>	Custom
Included	No; comes with compatible sensors/devices
Maximum Extendible Length	100'
<i>Relay Port</i>	Relay output cable
Included	No
Maximum Extendible Length	Depends on application/type
<b>Operating Temperature</b>	-40° F to 185° F (-40° C to 85° C)
<b>Maximum Load On Relay Port</b>	0.3A at 125VAC; 1A at 24VDC
<b>Compatible Products</b>	Room Alert 32S, 12S and 3S Room Alert 32E, 12E and 3E Light Tower (any model), Relay Switch

### Configure Your Light Tower Or Relay Switch

#### Use Room Alert's Built-In Web Interface

Navigate to **Settings** → **Alarms** in your Room Alert web interface. Both AVTECH's Light Tower and AVTECH's Relay Switch may be configured on this page.

*Depending on your model, the options you see in your Room Alert may vary slightly from those shown in the screenshots in this section.*



1. In *LTA Label*, you may leave the default or enter something more descriptive. Room Alert "E" models accept up to 15 characters, including only letters, numbers, spaces, hyphens (-), underscores (\_) or periods (.). Room Alert "S" models accept up to 30 characters, including the above and special characters, like ampersand (&).
2. In *LTA Connected*, select your device from the drop-down list:
  - To configure a **Light Tower**, select either **Red/Green No Audio** or **Red/Yellow/Green w/Audio**, depending on your model.
  - To configure a **Relay Switch**, select **Relay**.
3. Once you select your device, the *LTA Action Configuration* grid populates beneath it. (Note that the *LTA Relay* in the screenshot below refers to the relay output port on the Light Tower & Relay Adapter.)

#### Light Tower

Profile 1 ▾ Choose an Alarm or Boot Profile to view or edit.

LTA 1 Action Configuration

Profile 1	Red LED	Yellow LED	Green LED	Audio 1	Audio 2	LTA Relay
On Alarm	Off ▾	Off ▾	Off ▾	Off ▾	Off ▾	Off ▾
On Clear	Off ▾	Off ▾	Off ▾	Off ▾	Off ▾	Off ▾

#### Relay Switch

Profile 1 ▾ Choose an Alarm or Boot Profile to view or edit.

LTA 1 Action Configuration

Profile 1	Relay 1	Relay 2	Relay 3	Relay 4	LTA Relay
On Alarm	Off ▾	Off ▾	Off ▾	Off ▾	Off ▾
On Clear	Off ▾	Off ▾	Off ▾	Off ▾	Off ▾

4. Choose the alarm/clear profile you wish to configure. (The default for models with multiple profiles is **Profile 1**). Then choose the actions you wish each feature to execute when a sensor goes in and out of alarm state.

## Configure Your Light Tower Or Relay Switch

- In Room Alert "E" models, you may leave the default, **Off**, or choose **On**.
  - In Room Alert "S" models, you may leave the default, **None**, or choose **On** or **Off**.
5. If you wish, you may also configure a Boot Profile (Room Alert "E" models) or a Default Profile (Room Alert "S" models).
- Select **Boot Profile** in your "E" model to configure what the Light Tower or Relay Switch does in response to the Room Alert rebooting. For the Boot actions, you may leave the default, **Off**, or choose **On**.
  - Select **Default Profile** in your "S" model to configure what the Light Tower or Relay Switch does when an alarm/clear profile is not in effect. For the Default actions, you may leave the default, **Off**, or choose **On**.

*You may now navigate to another page; however, if you close the web interface before the final step, you will lose your changes.*

Now navigate to **Settings** → **Sensors** to associate your profile with a sensor.

**Room Alert® Monitor**

**Sensor Settings**

**General Alarm Configuration**

Trigger Alarm if Sensor is Disconnected? ☐

**Alarm Thresholds**

**Internal Sensor Alarm Configuration**

Sensor Type: Temp/Humidity Use Alarm Profile: Profile 1

Sensor Label	Alarm On	High	Low
Internal Sensor	Temperature (°F)	70	39
	Humidity (%RH)	40	20

☐ Monitor Heat Index

**Sensor 1 Alarm Configuration**

Sensor Type: Not Connected Use Alarm Profile: Profile 1

Sensor Label	Alarm On	High	Low	Adjust
Ext Sensor 1		0	0	0

1. Find your sensor's interface and choose the profile you've configured from the drop-down list in *Use Alarm Profile*.
2. Select **Save Settings** at the top or bottom of the page. Your Room Alert will automatically reboot and commit your changes.

*See next page for how to manually toggle your Light Tower or Relay from your Room Alert's Status page.*

## Manually Controlling Light Tower Or Relay Output

### Light Tower



You may also control your Light Tower or Relay Switch manually by navigating to **Settings**→**Status** in your Room Alert web interface and scrolling down to the *Light Towers and Relays* section. There you'll see the *Light Tower* or *Relay Status* box, both shown here.

Click on the appropriate image to toggle your device's features on and off. Here you see the red LED for the Light Tower manually toggled on and the 1st relay on the Relay Switch manually toggled on.

*Room Alert "S" models require you to log in with your device's username and password before you can manually toggle.*

### Relay

