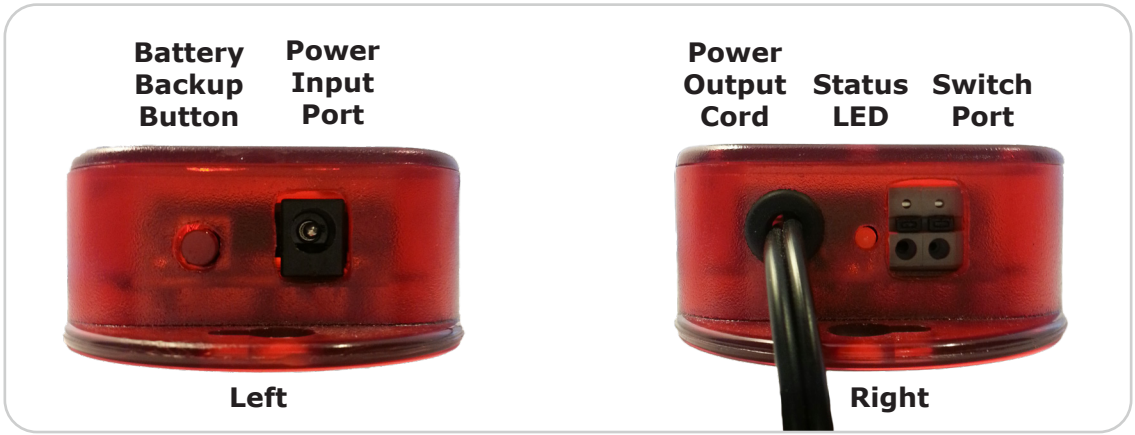
Installation Note

AVTECH's Mini UPS and Power Sensor (MUPS) monitors the on/off state of a power source, such as main power, a UPS, surge protector or standard wall outlet, and also provides up to 15 minutes of battery backup for your Room Alert or other 5V device.

MUPS Package Contents

- One (1) MUPS
- One (1) 25' speaker cable
- Two (2) mounting screws

MUPS



MUPS Features

Battery Backup Button

The red button next to the power port on the left side of your MUPS activates/deactivates the battery backup.

Button in this position...	Means the battery backup is...
Down (recessed in the enclosure)	Activated
Up (flush with the enclosure)	Deactivated

Status LED

The Status LED next to the main power cord on the right side of your MUPS shows you the device's power status.

This LED Color...	Means...
Green	Main power is on
Red	Only battery backup is on; main power is off
Unlit	Neither main power nor battery backup is on

Install Your MUPS

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

Step 1: Mount your MUPS.

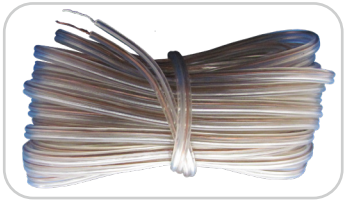
1. Position your MUPS close enough to the power source that the power adapter cord will reach. (Don't connect power yet—you'll do that in a later step.)
2. Mount your MUPS with screws through the flange holes, secure it with Velcro or simply place it on a flat surface.

Step 2: Connect your MUPS switch port to Room Alert.

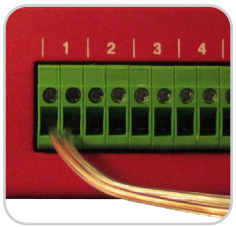
Do not connect the switch sensor inputs (dry contacts) on AVTECH products to any live circuit.

Use only low-voltage 2-wire cable to connect switch sensor inputs.

Your MUPS comes with one end of the 25' speaker cable already attached to its switch port, which is non-polarized. Follow these steps to attach the other end to a switch port on your Room Alert:



1. Separate and strip the leads on the free end of the speaker cable, exposing about ¼" of wire.
2. Run the speaker cable back to your Room Alert. Try to avoid running it near large electromagnetic devices or fluorescent lights, which produce EMI and can interfere with sensor readings.



3. Connect the free ends (the ¼" leads) of the speaker cable to an open switch port on your Room Alert. Be sure the bare wire, not the insulation, connects to the port. Again, the leads are non-polarized, so you may connect either lead to either side of the open port.

Step 3: Connect your MUPS power output cord to Room Alert.

Your MUPS comes with a built-in power output cord with a barrel connector.

Connect this cord to the power port on your Room Alert (or other 5V device you wish to power using the MUPS).

Step 4: Connect your MUPS to the power source you wish to monitor.

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

1. Connect an AVTECH 5V power adapter to the power input port on the MUPS.
2. Then insert the power adapter plug into the power source you wish to monitor.

Notice that the Status LED lights up green when your power source is on.

Step 5: Activate the battery backup.

Push in the red button next to the power port to activate the battery backup. If you don't push this button in, the batteries won't take over when main power is lost.

When you first connect the MUPS to power, allow the batteries to charge for 24 hours before you test or depend on the battery back up.

MUPS Batteries

Do not use alkaline batteries in the MUPS. Use only rechargeable Ni-MH batteries.

Your MUPS comes with 3 AAA rechargeable Ni-MH batteries. When the MUPS is plugged in, it trickle-charges them.

When you first connect the MUPS to power, allow the batteries to charge for 24 hours before you test or depend on the battery backup. When they are fully charged, they can provide up to 15 minutes of power.

Test the unit regularly to make sure it is fully operational. To test the batteries, unplug the MUPS from power—making sure the Battery Backup Button is pushed in—and check that the Status LED is fully lit red. (Dim red may indicate the batteries are partially charged; an unlit Status LED indicates there's no charge.)

In the course of normal use, the batteries will eventually lose their ability to hold a charge. When this happens, you may replace them: unplug the MUPS from main power, pop off the top cover (with the "MUPS" label) from the unit, and replace the existing batteries with 3 new AAA rechargeable Ni-MH batteries. Then snap the cover back on and plug the unit back in to main power.

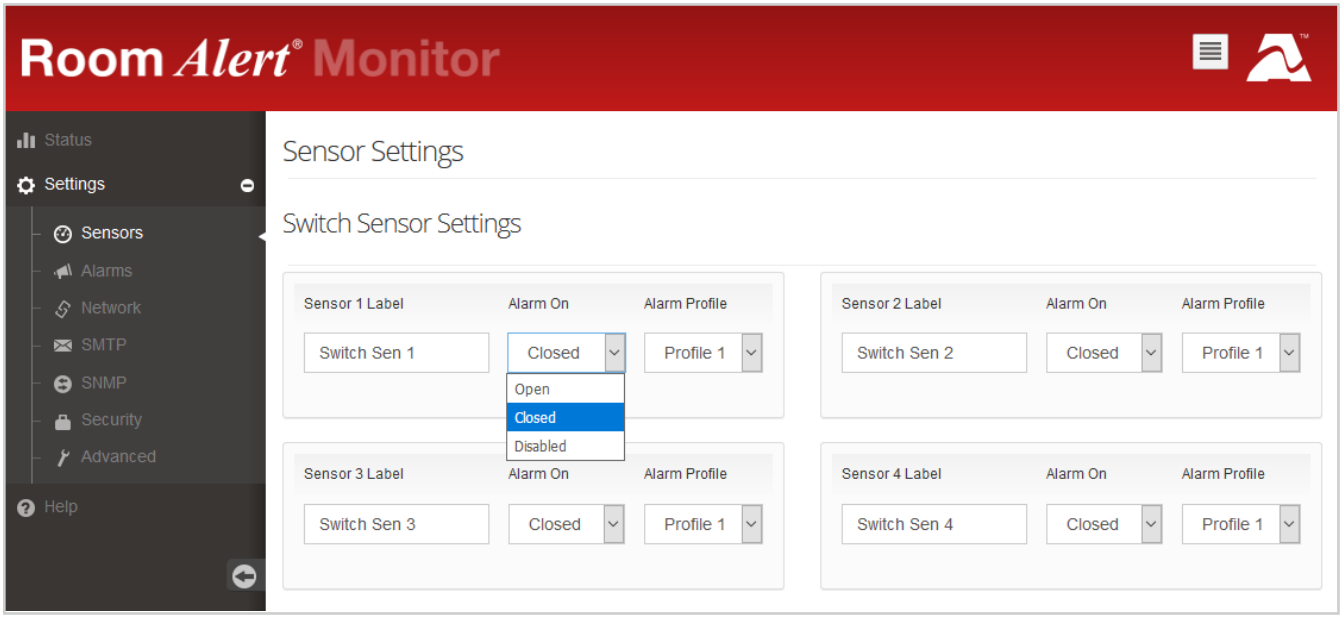
Sensor Features & Specifications

Environment Condition Monitored	Power
Type Of Sensor	Switch
Normal State	Closed (Main power ON)
Alarm State	Open (Main power OFF)
Power Supply	
Main Power	AVTECH 5V power adapter
Included	No
Battery Backup	3 AAA rechargeable Ni-MH batteries
Included	Yes
Sensor Cable Type	Low-voltage two-wire speaker cable
Included	Yes
Length	25'
Maximum Extendible Length	900'
Operating Temperature	
Batteries Charging	32° F to 104° F (0° C to 40° C)
Batteries Discharging	32° F to 122° F (0° C to 50° C)
Compatible Products	Any Room Alert model or Wireless Sensor Hub

Configure Your Switch Sensor

Use Room Alert Monitor's Built-In Web Interface

Navigate to **Settings** → **Sensors** in your Room Alert Monitor's web interface. The options you see below will vary depending on your Room Alert model.



1. Scroll down to *Switch Sensor Settings*.

2. Find the switch sensor label that matches the port you connected your switch sensor to. For example, if you used the first switch sensor port on your Room Alert Monitor, look for *Sensor 1 Label*; if you used the second, look for *Sensor 2 Label*, and so on.

3. In *Sensor X Label*, you may leave the default, "Switch Sen X," 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 (&).

4. In *Alarm On*, select the alarm state (**Open** or **Closed**) for your switch sensor. You may find the alarm state of your switch sensor under the *Features & Specifications* section of this Installation Note.

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

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

AVT-200803-1.2.1