

# Mesa Installation Instructions



Video Guide & Dashboard

[sidewalklabs.com/install](https://sidewalklabs.com/install)

The approximate location of all devices is specified in the device placement guide.

## MESA TIP

Before you begin, give us a call at (855) 572-4646 to talk you through the install with you!

## PLUG INTO ELECTRICAL OUTLETS

### 1. Cloud Connector

*Sends sensor data to the cloud*

Insert one end of the Ethernet cable into the Cloud Connector and the other into the power adapter's port labeled "OUT." Plug in a place with good cell reception and within 75 feet of where you'll place the temperature, humidity, and proximity sensors. Use the mounting bracket or adhesives to secure to the wall.

Check the display for data connection (white cloud icon) and its strength (up to four dots).



### 1.1. Wi-Fi Router

*Provides secure data connectivity for Mesa devices*

Unfold its three antennas. Plug in a place with good cell reception and within 60 feet of the thermostat. Use the mounting bracket or adhesives to secure to the wall.

The LED indicators show power , Wi-Fi, and cell signal .



### 2. Smart Plugs

*Measure electric usage and turn devices on/off*

Plug into an outlet where you'd like to measure electric usage and be able to turn devices on/off (e.g. space heaters or monitors).

The solid blue light means a connection is established. If the light is not on, press the button on the right.



# Mesa Installation Instructions



Video Guide & Dashboard

[sidewalklabs.com/install](https://sidewalklabs.com/install)

The approximate location of all devices is specified in the device placement guide.

## MESA TIP

For all sensors: remove protective film before sticking. Use your dashboard to confirm you're seeing the data after 15 minutes ([mesadashboard.sidewalklabs.com](https://mesadashboard.sidewalklabs.com))

## ADHERE TO THE WALL

### 3. Temperature and Humidity Sensors

*Measure ambient temperatures and humidities*

Stick on room-temperature spots between 4 and 6 feet off the ground. Avoid metal surfaces.

Find instructions for installing temperature sensors near supply air grilles and radiators at [sidewalklabs.com/products/mesa/temp-sensor](https://sidewalklabs.com/products/mesa/temp-sensor)



### 4. Window/Door Proximity Sensors

*Detect open windows and doors*

Open a window or door and stick a sensor to any part of the door/window frame where the sensor will be visible when opened, but not visible when closed. If dusty, use the included alcohol wipes to clean the frame, then let the surface dry. Avoid metal surfaces. That's it!



### 5. Comfort Buttons

*Allow people to give real-time feedback*

Place where people can see and easily reach.



# Mesa Installation Instructions

## MESA TIP

Take a picture of your existing thermostat wiring to keep a record of it.



Video Guide & Dashboard

[sidewalklabs.com/install](https://sidewalklabs.com/install)

The approximate location of all devices is specified in the device placement guide.

## 6. Replace Thermostat

Ensure that the old thermostat is working properly. ⚠️ Use the circuit breaker box to power off Heating, Ventilation, and Air Conditioning (HVAC) systems.

Remove the old thermostat cover. 🛑 STOP if you see warning indicators about “HIGH VOLTAGE,” 110 VAC, 120 VAC, 240 VAC, or L1 L2 markings. Check to ensure you have a C wire connected to the old thermostat. If not, contact support.

Take a picture of the existing wiring.

One at a time, disconnect and label the wires from your old thermostat using the labels provided. Remove the old thermostat back plate, and place the new one (pull wires through, and mount using screws or adhesive). Insert your R wires. If you have more than one R wire: R or RC → RC and RH → RH. If not, insert single wire: R, RC, or RH → RC. Insert your remaining wires into the side (not the front) of their corresponding terminal blocks. Push excess wire back into the wall so that the thermostat will easily snap into place. Gently press your smart thermostat into the backplate until it clicks into place.



## Thermostat Configuration

Make sure the thermostat is turned on and set to “Auto”. Use the thermostat screen to check that it’s connected to your Wi-Fi by pressing the Menu button (≡) > Settings > Wi-Fi. It should say “Connected to <network name>.”

### If you have a heat pump system:

Once your smart thermostat has powered on touch the Menu button (≡) on the bottom left of the screen. Choose Settings > Installation Settings > Equipment > Reconfigure Equipment > I’m a homeowner > Yes, only Rc is connected.

Then, verify wiring matches what was connected to the thermostat backplate, terminals highlighted white should match the wiring you connected in the wiring step. Select Single speed fan > Default state OPEN > Set temperature unit then go back to the Equipment screen.

Turn your HVAC systems on.

# Mesa Installation Instructions



Video Guide & Dashboard

[sidewalklabs.com/install](https://sidewalklabs.com/install)

The approximate location of all devices is specified in the device placement guide.

## MESA TIP

Read the instructions for the type of motion sensors that you have been provided.

## 7. Motion Sensors

*Detect movement*

### If you have wall-mount motion sensors:

Place the sensors on surfaces, like a desk (using the cone stands) or stick them to the wall (with the adhesive) about five feet off the ground. They should have an unobstructed wide view of the area. Avoid hot/cold surfaces.

On the thermostat, go to **Menu > Sensors** to check that the motion sensor icon (  ) is there. If not there, wait five minutes and try again.

### If you have ceiling-mount motion sensors:

Clean the surface with an alcohol pad (included). Remove protective film from the backplate before sticking; press onto the clean surface for 30 seconds and allow the adhesive to set for 24 hours. Lock the sensor in place on the backplate by turning it clockwise onto the bracket; use a phillips head screwdriver to tighten the safety screw in place.



# Mesa Installation Instructions



Video Guide & Dashboard

[sidewalklabs.com/install](https://sidewalklabs.com/install)

The approximate location of all devices is specified in the device placement guide.

## 8. Leak Detection Sensors

*Detect the presence of water on the sensor*

Stick it in a location where water from potential leaks would collect. Clean the surface with an alcohol pad (included). The optional leak detection extender (included) can be added to any device where leak detection range is desired (e.g. drain pans). The device will sense water on any part of the tape extension.



## 9. Air Quality Monitors

*Measure CO2*

Stick it on a wall 4'-6' off the ground. Locate a device at least 3' from doors, windows, air vents, and heating/cooling sources.

