**Warning**

Sense is connected to dangerous voltages. Improper use or installation can be dangerous or even fatal. Please make sure to follow these guidelines:

1. Have the installation done by a qualified professional, according to local electrical codes.
2. Personal protective equipment should be worn when installing a current transformer on a conductor exposing hazardous live voltages. If the current transformers are used in a manner other than specified, the safety protection provided may be impaired.
3. Do not try to open the Sense monitor, touch any internal parts, or try to repair it.
4. If you believe the monitor, sensors, or cables may have been damaged, do not try to use them.
5. Use the Sense monitor only in the United States, and only with a 60Hz 120V/240V split phase system.
6. Install the Sense monitor where it will not be exposed to direct sunlight or extremely low or high temperatures. No exposure to water. RH < 90%; Elevation < 3000 meters; Temperature 0 - 50°C.

**Legal**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. Operation is subject to these conditions:

1. It may not cause harmful interference,
2. It must accept any interference received, including interference that may cause undesired operation. If it is not installed and used as per the instructions, it may cause interference which is harmful to wireless communications. There is no guarantee that interference will not occur in a particular installation. If it does cause interference we recommend: reorienting or relocating the receiving antenna, or increasing the separation between the device and the receiver.

**Questions?**

Contact support@sense.com.

Designed by Sense
Cambridge, MA 02139

Patents: sense.com/patents

ETL US

Intertek

Certified to CSA STD C22.2 No. 61010-1
Conforms to UL STD 61010-1
Download the Sense app.
Go to sense.com/app
01 Open the middle port

Using a flathead screw driver, pry open the middle port of the Sense monitor. This will be used to connect the solar sensors.
02 Turn off power

Open the door to the electrical panel and turn off the main breaker and power to the incoming solar feed. This helps protect you during installation. Don’t forget your flashlight!
03 Remove panel cover

Remove the screws securing the panel cover to access the circuit breakers. If solar is in a subpanel, remove the subpanel cover.

Warning: The service mains are always live!

Upgrading to solar?

Please skip to step 8.
04 Find a spot for your Sense

The Sense monitor is designed to fit within your main panel in order to monitor your whole home energy consumption. Find an open spot that works for you.

What if there is no room?

Use the mounting bracket provided. See more installation configurations at help.sense.com.

Warning: The service mains are always live!
05 Install the antenna

Using the back of a screwdriver, punch out the knockout cover in the electrical panel. Then, insert the antenna.
06 Connect

Connect the power cable, antenna, and current sensors to the monitor. The solar sensors, labelled ☀ should only be used for solar. Insert the current sensors into the outer port. The middle port is only for solar sensors.
07 Clamp sensors around service mains

Clamp the current sensors around the service mains so that both Sense labels face the same direction. The direction of the sensors does not matter, as long as they are the same.

As a safety precaution, first plug the sensors into the Sense monitor.
08 Connect the solar sensors

Connect the solar sensors, labeled with the ☀️ to the middle port on the monitor.
09 Clamp the solar sensors

Clamp the solar sensors around the wires to the incoming solar feed so that both labels face the same direction. The direction of the sensors does not matter, as long as they are the same.

Upgrading current setup to solar?

Please skip to step 11.
10 Connect the power

Connect the black wire and the red wire to an empty 240V breaker and the white wire to the neutral bus bar. Sense draws less than 0.1A, so you should use the smallest 240V breaker available for your panel.

Don’t have an empty breaker?

Connect to an existing or add a new 240V breaker. Do not use a tandem breaker, unless it is 240V. Learn more at help.sense.com.
11 Close the panel
Replace the panel cover carefully to ensure that there is no pressure on the sensor clamps that would cause them to open. Label the Sense breakers with the included sticker.

Doing electrical work?
Reattach all sensors to the same wires and in the same direction in which they were installed.
12 Turn power on, wait for chime

Once the panel is closed, turn on power to the main breaker and incoming solar feed. Listen for one of the following sounds. It will take about a minute before hearing a sound.

Success Chime
Installation was successful!

Repeating Beep
There is an installation problem. Check cable connections.

No Sound
The Sense monitor cannot start. Check power cable connections.

Moving? Take Sense with you.

Follow all safety precautions. Turn off power to the main breaker and solar feed. Disconnect the sensors from the service mains and solar feed. Disconnect all cables from the monitor. Remove the antenna and disconnect the power cable. Contact Sense to reset your data.
13 Connect to the Sense app

Go to sense.com/app on your phone to download the app. The app will guide you to create your account.

Upgrading to solar?

Go to Settings / Sense Monitor / Setup Solar and follow the solar setup procedure.
This guide is for installations of Sense solar and solar upgrades. When installing Sense, your solar panels must be generating at least 150 watts in order to calibrate the system correctly. If upgrading to solar, it is best not to remove the existing sensors. Go to sense.com/works to check compatibility.

Caution: The Sense monitor should be installed by a qualified professional. Before installing, please read and review the safety warnings.

Technical Specifications
Sense is a home energy monitoring device. It is used to measure the currents and voltages in the service mains. It monitors two phases of 120VAC. If installed outside, it must be kept dry and within specified temperature ranges.

Monitor Specifications
Weight: 200g
Size: 137mm x 66mm x 32mm

Current Transformer Specifications
CAT III 600V 200A max
May be used on uninsulated conductors
See what’s up. Know what’s on.™
See what’s up. Know what’s on.