

## Dedicated Circuit: 2 Loads

### Safety Precautions

Electrical equipment should be installed, operated, serviced and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.



#### HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70, CSA Z462, or NOM 029-STPS.

This equipment must only be installed and serviced by qualified electrical personnel.

Turn off all power supplying this equipment before working on or inside equipment.

Always use a properly rated voltage sensing device to confirm power is off.

Replace all devices, doors, and covers before turning on power to this equipment.

Beware of potential hazards, and carefully inspect the work area for tools and objects that may have been left inside the equipment.

**Failure to follow these instructions will result in death or serious injury.**

The Wiser Energy System has been tested and certified for use with Square D™ circuit breakers, load centers and combination service entrance devices (CSEDs) as installed per this manual.

For use in non-Square D load centers and CSEDs please consult with the manufacturer for compatibility.

# Instructions

Wiser Energy can monitor up to two 120V or 240V circuits. This feature is designed to monitor circuits that have a single device or appliance on them. If you monitor a circuit with multiple devices, they will show as a single device in the Sense app.

Please ensure your dedicated circuit sensor cable is plugged into your Wiser Energy monitor before installing your sensors.

What do you want to monitor?

[Monitoring two 120V loads](#)

[Monitoring two 240V loads](#)

[Monitoring a 120V load and a 240V load](#)

## Monitoring two 120V loads

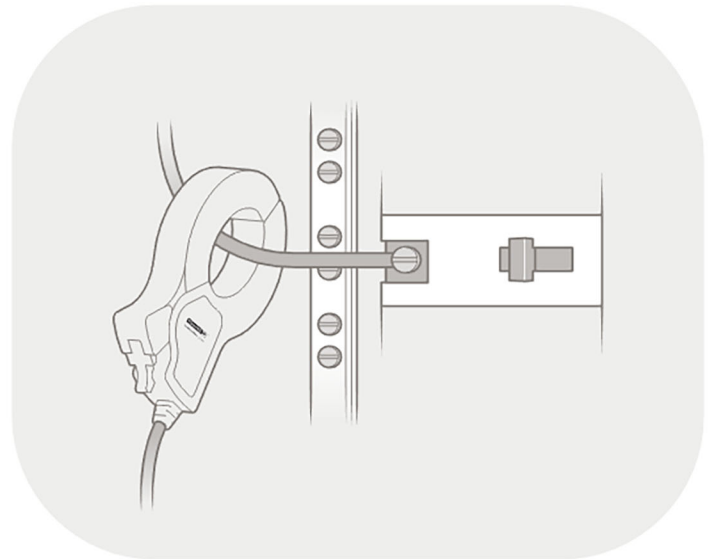
Instructions:

1. Find the first load you want to monitor in your electrical panel and turn off the breaker to the load.
  2. Clamp one sensor around the single ungrounded conductor attached to the breaker identified in step 1. Once placed in the final orientation, if your sensor has locking capabilities, push the sensor lock until you hear a click. The direction of the Wiser Energy logo sticker on the sensor must face the circuit breaker. Failure to correctly face the sensor will result in inaccurate or negative wattage.
- NOTE:** GFCI and AFCI breakers may be connected directly to the neutral bus with an additional wire. That wire should be ignored for the purposes of this installation.
3. Find the second load you want to monitor in your electrical panel and turn off the breaker to the load.
  4. Clamp the other sensor around the single ungrounded conductor attached to the breaker identified in step 3. Once placed in the final orientation, if your sensor has locking capabilities, push the sensor lock until you hear a click.

The direction of the Wiser Energy logo sticker on the sensor must face the circuit breaker. Failure to correctly face the sensor will result in inaccurate or negative wattage.

5. Write down the names of the devices you'll be monitoring and that they're both 120V loads. You'll need this information during in-app setup.

*Ensure both breakers are still in the 'off' position before returning to the core installation guide.*



[Return to the Dedicated Circuit installation guide.](#)

## Monitoring two 240V loads

Wiser Energy can monitor two 240V loads using a single CT per load if they are balanced 240V-only loads with no connection to the neutral bus (not 240V/120V loads which are connected to the neutral bus). Your installer should be able to tell if the load is connected to the neutral bus.

While exceptions exist, you can often identify a 240V-only load by looking at the ungrounded conductor colors at the breaker: If you see a black and a white (usually with a black or red stripe) conductor, it's likely a 240V-only circuit with no connection to neutral. **If you see a black and a red conductor, it's likely connected to neutral and cannot be set up with this method.** For advanced installations, please see the [Advanced Dedicated Circuit Monitoring installation guide](#).

This method should not be used if monitoring only one load and that load is 240V. Please use the [single CT method if monitoring a single 240V load](#). This method works with both 240V-only and 240V/120V loads.

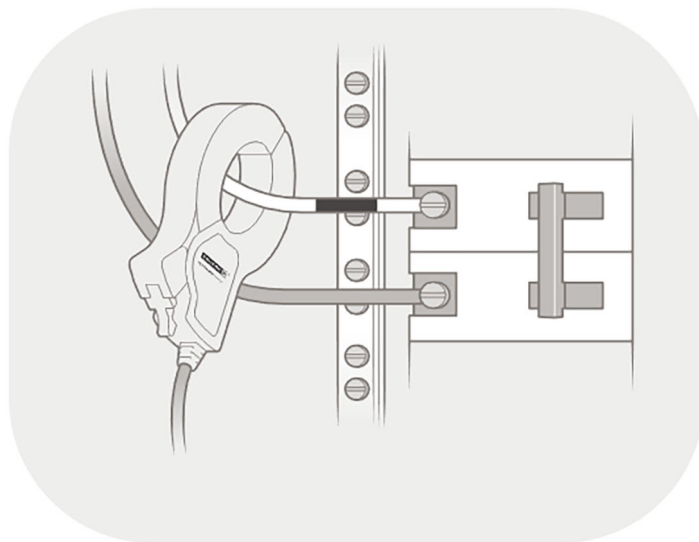
### Instructions:

1. Find the first 240V-only load you want to monitor in your electrical panel and turn off the breaker to the load.
  2. Clamp one sensor around either ungrounded conductor attached to the breaker identified in step 1. It does not matter which conductor the sensor is attached to. Once placed in the final orientation, if your sensor has locking capabilities, push the sensor lock until you hear a click. The direction of the Wiser Energy logo sticker on the sensor must face the circuit breaker. Failure to correctly face the sensor will result in inaccurate or negative wattage.
- NOTE:** GFCI and AFCI breakers may be connected directly to the neutral bus with an additional wire. That wire should be ignored for the purposes of this installation.
3. Find the second 240V-only load you want to monitor in your electrical panel and turn off the breaker to the load.
  4. Clamp the other sensor around either ungrounded conductor attached to the breaker identified in step 3. It does not matter which conductor the sensor is attached to. Once placed in the final orientation, if your sensor has locking capabilities, push the sensor lock until you hear a click.

The direction of the Wiser Energy logo sticker on the sensor must face the circuit breaker. Failure to correctly face the sensor will result in inaccurate or negative wattage.

5. Write down the names of the devices you'll be monitoring and that they're both 240V loads. You'll need this information during in-app setup.

*Ensure both breakers are still in the 'off' position before returning to the core installation guide.*



[Return to the Dedicated Circuit installation guide.](#)

## Monitoring a 120V and a 240V load

In many cases, it is possible to monitor a 240V load using a single CT. This method can only be used if the load is a 240V-only load with no connection to the neutral bus (not a 240V/120V load which is connected to the neutral bus). Your installer should be able to tell if the load is connected to the neutral bus.

While exceptions exist, you can often identify a 240V-only load by looking at the colors of the ungrounded conductors attached to the breaker: If you see a black and a white (usually with a black or red stripe) conductor, it's likely a 240V-only circuit with no connection to neutral. **If you see a black and a red conductor, it's likely connected to neutral and cannot be set up with this method.** For advanced installations, please see the [Advanced Dedicated Circuit Monitoring installation guide](#).

### Instructions:

1. Find the 120V load you want to monitor in your electrical panel and turn off the breaker to the load.

2. Clamp one sensor around the single ungrounded conductor attached to the breaker identified in step 1. Once placed in the final orientation, if your sensor has locking capabilities, push the sensor lock until you hear a click. The direction of the Wisser Energy logo sticker on the sensor must face the circuit breaker. Failure to correctly face the sensor will result in inaccurate or negative wattage.

**NOTE:** GFCI and AFCI breakers may be connected directly to the neutral bus with an additional wire. That wire should be ignored for the purposes of this installation.

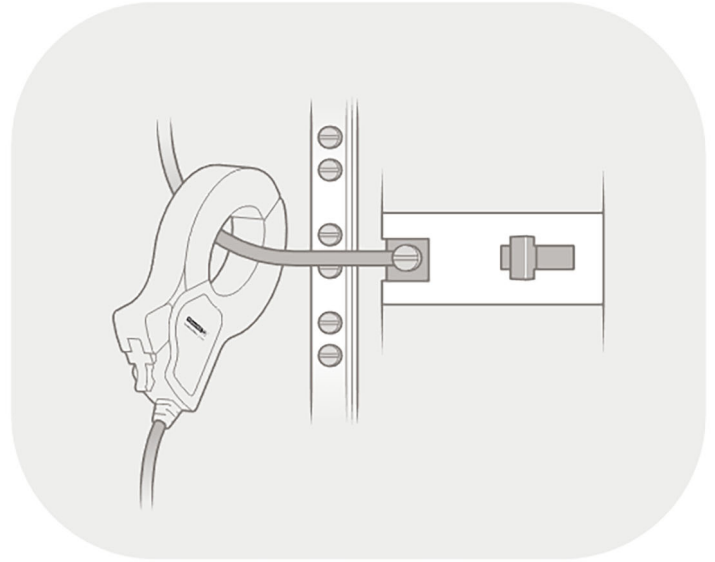
3. Find the 240V-only load you want to monitor in your electrical panel and turn off the breaker to the load.

4. Clamp one sensor around either ungrounded conductor attached to the breaker identified in step 3. It does not matter which conductor the sensor is attached to. Once placed in the final orientation, if your sensor has locking capabilities, push the sensor lock until you hear a click.

The direction of the Wisser Energy logo sticker on the sensor must face the circuit breaker. Failure to correctly face the sensor will result in inaccurate or negative wattage.

5. Write down the names and type (120V, 240V-only) of the devices you'll be monitoring. You'll need this information during in-app setup.

*Ensure both breakers are still in the 'off' position before returning to the core installation guide*



[Return to the Dedicated Circuit installation guide.](#)

