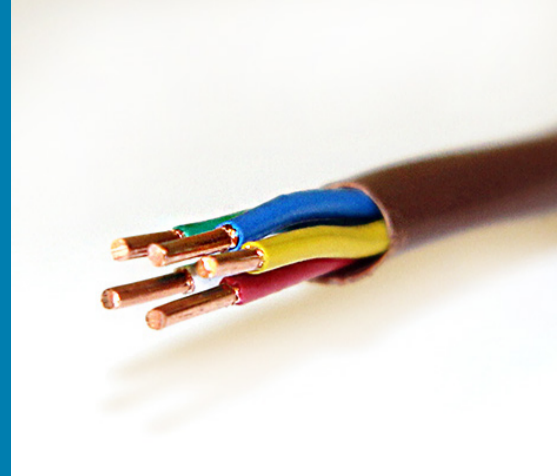


What is a C-Wire?

A c-wire (also referred to as a common wire) is a low voltage power wire that many Wi-Fi thermostats require for their features to work. A lot of homes don't have a c-wire because older thermostats didn't require one. The Sensi Wi-Fi Programmable Thermostat is one of the few Wi-Fi options that does not require a c-wire in most cases, making installation quick and easy. However, if you have a C-Wire, it is recommended that you connect it.



Do I Need A C-Wire To Use Sensi?

Sensi was designed with low power consumption in mind, so it works in the majority of combined heating and cooling system homes even without a c-wire. With Sensi, two AA batteries (included) provide backup power that can last for months in most cases.

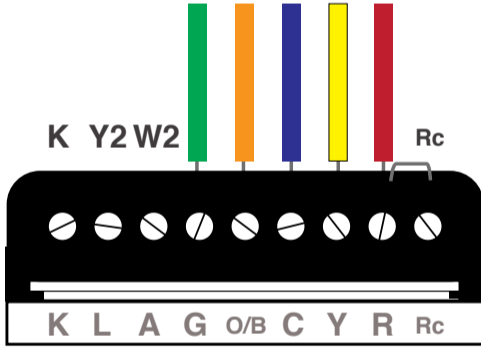
Refer to the table to check compatibility and see if a c-wire is required for your system:

System Type

Is Sensi Thermostat Compatible?

<p>Heating (up to four stages) and Cooling (up to two stages)</p> <p>Sensi thermostat is designed to work on the following heating and cooling systems</p> <ul style="list-style-type: none"> Gas, Oil, Electric, Forced Hot Air Systems Heat Pumps (Air Source or Geothermal, Electric or Dual Fuel Gas / Electric*) Hot Water Boilers Radiant Heat Systems Up to 4 stages of Heating, and 2 stages of Cooling <p>Heat-Only, Cool-Only and Heat Pump systems require a c-wire (common wire) connection to work with Sensi.</p> <p>* The Sensi thermostat provides automatic dual fuel control without an outdoor sensor. A fossil fuel kit may be added if user selectable balance point settings are desired.</p>	<p>YES</p>
Heat Pump	YES*
Cool-only	YES*
Heat-only	YES*
Line Voltage or Electric Baseboard Heating	No
Millivolt Heating	No
Proprietary or Communicating	No

*Requires a c-wire



How Do I Know If I Have A C-Wire?

To determine if you have a c-wire, remove your old thermostat's cover plate. You should see several wire terminals labeled with letters. If a wire is connected to the "C" terminal, you have a c-wire. Some manufacturers use the letters "B" or "X" for a common connection. If you see a "B" or "X" the thermostat manufacturer can help you determine if it's a common connection. If you have a C-Wire, it is recommended that you connect it.

Can I Add A C-Wire To My System To Use the Sensi thermostat?

If you do not have a c-wire, there are several options to add one. If you would like to add a c-wire yourself we recommend that you contact a professional contractor to discuss the following options:

1. Extra, unused wire - Check to see if there is an extra, unused wire behind the old thermostat. If there is an extra wire, it can be attached to the "C" terminal on the system, and the "C" terminal on the thermostat.
2. A new wire – Run a new wire from the heating or cooling system to the thermostat. Attach the wire to the "C" terminal on the system and the "C" terminal on the thermostat. Thermostat wire is 18 gauge solid copper wire available at most hardware stores.
3. Repurpose the fan connection ("G" wire) - On heat-only or cool-only systems that have a fan connection ("G" wire) it can usually be repurposed as a c-wire (common). When repurposing "G" as a c-wire, the "Fan On" thermostat fan on function will no longer operate but heating or cooling will operate normally.

- For cooling systems (thermostats with "R" or "RC", "Y" and "G" connections) attach the "G" wire to the "C" terminal on the system and the "C" terminal on the thermostat. Add a jumper between the "G" and "Y" terminals on the system to turn on the fan and the compressor at the same time.
- For electric heat systems (thermostats with "R" or "RH", "W" and "G" connections) attach the "G" wire to the "C" terminal on the system and the "C" terminal on the thermostat. Add a jumper between the "G" and "W" terminals on the system to turn on the fan and electric heat at the same time.
- For gas heat (thermostats with "R" or "RH", "W" and "G" connections) attach the "G" wire to the "C" terminal on the system and the "C" terminal on the thermostat. Gas heating systems have a fan control to operate the blower after the heating starts so no jumper should be required between the "G" and "W" terminals on the system.



Smart Comfort.
Smarter Savings.
Only from Emerson.