

meross

MCA100
User Manual

■ Product Description

This product provides a C wire (common wire, typically blue) to power a thermostat. Most smart thermostats need a C wire to operate Wi-Fi and other smart features. However, some older thermostats do not require a C wire. If it is not connected to your old thermostat, it may be pushed into the wall. Install this adapter only if you don't have a C-wire.

This adapter requires your HVAC(Heating, Ventilation, and Air Conditioning) system to have the following wires:

4 wires: W/W1(or O/B), Y/Y1, G, and R/Rc
or 3 wires: Y/Y1, G, and R/Rc

■ Safety Information

- When installing the adapter, make sure the power to the circuit breaker controlling the HVAC system is off.
- For zoned systems, install the C Wire Adapter between the thermostat and the zoning panel, NOT between the zoning panel and HVAC equipment.

- Do NOT install the adapter with wet hands or when standing on wet or damp surfaces.
- If you are not familiar with the installation, please call a qualified professional for assistance.

■ Package Content



C Wire Adapter
x1



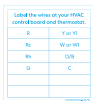
User Manual
x1



Splitter
x1



Terminal Block
x1



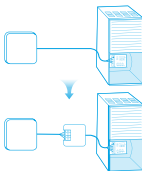
Wiring Sticker
x1



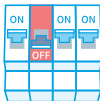
Double-sided
Tape x1

■ Installation Instruction

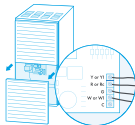
The C Wire Adapter should be installed between the thermostat and the HVAC control board. For the zoned system, install it between the thermostat and the zoning control board.



(1) Turn off power at the main switch or circuit breaker that controls your HVAC system.



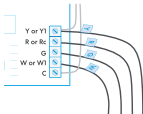
(2) Open your HVAC system's cover to reveal the control board.



(3) Take a picture of the wires on the control board. You may need to reference this photo later.

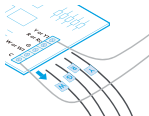


(4) Use the provided stickers to label the connected wires: Y or Y1, R or Rc, G, W or W1*. If you have more than one wire going into these terminals, only label those going to your thermostat.

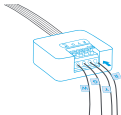


Note: Not all systems have a W or W1 wire. On a heat pump application, the wire coming from O/B on the old thermostat would match either O or B at HVAC control board rather than W. If none of the W, W1, or O/B wires are present, simply use 3 wires in the next steps.

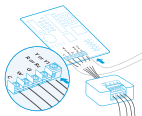
(5) Disconnect these labeled wires.



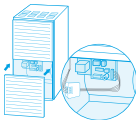
(6) Press the button to insert the wires you just disconnected into the C Wire Adapter terminals.



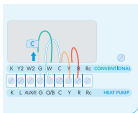
(7) Connect the five wires coming out of the C Wire Adapter to the corresponding terminals on the control board.



(8) Use the double-sided adhesive pad to mount the C Wire Adapter inside your HVAC system. Close the HVAC system's cover, then come back to your thermostat.



(9) Back to your thermostat, label the wire connected to the G terminal with C, then disconnect it.



(10) Label and disconnect the wire connected to the Y or Y1 terminal, then use the terminal block to connect it with the splitter to make two wires, the G wire and the new Y wire.



(11) Label and disconnect the remaining wires from your old thermostat one by one. With the C wire adapter now in place, refer to the new thermostat's user manual to complete the installation process.

■ FAQ

At Meross, we strive to assure your satisfaction. Attached below is a non-exhaustive list of questions that users are mostly concerned about.

1. Is the COM wire/terminal the same as the C wire/terminal?

Yes. C stands for "common" and is sometimes labeled as Com or COM.

2. Can I install this C wire adapter for a non-Meross brand thermostat?

Yes, as long as your thermostat has Y, G, and R(or Rc/Rh) wires.

3. I have only 2 wires at my thermostat. Can I use this adapter to add a C wire?

No. You need at least Y (Air Conditioner), R (Power), and G (Fan) wires.

4. Can I run a C wire from the HVAC system to the thermostat instead of installing the C wire adapter?

Yes. You can either install a C wire adapter or run a C wire directly from the HVAC system to the thermostat.

To learn more, you can visit <https://www.meross.com/support/faqs> to find solutions for more frequently asked questions.

■ Warranty

Meross products are covered by a 12-month limited warranty from date of purchase. Please visit <https://www.meross.com/support/warranty> for detailed warranty policy and product registration.

■ **Disclaimer**

1. The function of this smart device is tested under typical circumstances described in our specifications. Meross does NOT guarantee that the smart device shall perform the same as described under all circumstances.
2. Damages arising from ignorance of the SAFETY INFORMATION shall not be covered by Meross aftersales service, nor does Meross take any legal responsibility therefrom. Customers acknowledge their understanding of these articles clearly by reading this manual.

■ **FCC Compliance Information Statement**

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

■ **Canadian Compliance Statement**

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).

Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- 1) L'appareil ne doit pas produire de brouillage;
- 2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

SIMPLE DEVICE SIMPLIFY YOUR LIFE

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