



Welcome To

Thermostat Wire Adapter

INSTALLATION GUIDE

INTRODUCTION

Thanks for purchasing the iDevices Thermostat Wire Adapter. This easy-to-follow guide will take you through the installation process, step by step.

If at any time you require assistance, please contact our Customer Experience Team.

Call: 888.313.7019
Monday – Friday
8am – 8pm EST

Email: Support@iDevicesinc.com

Visit: iDevicesinc.com/Support

Please visit: iDevicesinc.com/Compatibility to see if your HVAC system is compatible.

PLEASE READ PRIOR TO INSTALLING YOUR IDEVICES THERMOSTAT WIRE ADAPTER

The installation of the iDevices Thermostat Wire Adapter and all wiring must conform to local and national electrical codes. Improper wiring or installation may cause damage to this product, your Thermostat, your HVAC system, or your home, and could result in personal injury.

The iDevices Thermostat Wire Adapter is intended to share two Thermostat signals over one wire, so that you can add a C wire to a system that doesn't currently have one. Your system will need at least 3 physical wires between the HVAC control board and the Thermostat, as well as an accessible

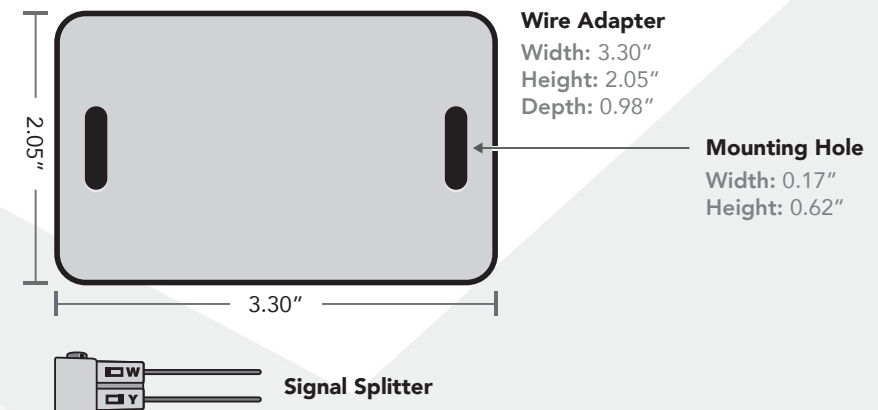
C/Common terminal on the HVAC control board or transformer to connect to.

The Thermostat Wire Adapter can also be used to add a wire other than C. This can be helpful if, for example, you wish to add air conditioning to a heat only system, fix a broken wire that is inaccessible, or upgrade a one stage furnace to a two-stage furnace. We recommend you contact an HVAC professional to discuss these options.

GETTING STARTED

The iDevices Thermostat Wire Adapter should be installed in or near the HVAC system control board or furnace, or another dry, indoor location. Find a location with easy access to the wires that run between the HVAC unit and the Thermostat.

If needed, you can use two #8 screws (not included) to mount the wire adapter to a convenient surface.



Separate the front cover from the wire adapter by squeezing the four tabs (two on either side)

WIRING REQUIREMENTS

- Acceptable Wire: 24-18AWG
- Max. Wire length (total wire length between HVAC system and Thermostat): 18 AWG: 195 feet 24 AWG: 65 feet
- All wires and connections should conform to applicable local and national electrical codes.

ELECTRICAL SPECIFICATIONS

RATED INPUT:

- Voltage: 18 to 30VAC, 50Hz or 60Hz
- Current consumption: 30mA at 24VAC when W & Y are connected
- Terminals: RC, RH, Y, W, C, G

RATED OUTPUT:

- Voltage: 18 to 30VAC, 50Hz or 60Hz Class 2
- Current rate: 5 Amps
- Terminals: RC, RH, Y, W, C, G



WARNING: TURN THE POWER TO YOUR HVAC SYSTEM AND OLD THERMOSTAT OFF BEFORE YOU START THE INSTALLATION PROCESS!


Note: The Wire Adapter should not be used to “share” either the R (or RC/RH) wire or the C wire. Both the R wire for the system and the C wire must each be separate,

physical wires, or damage to the system or Thermostat, or unintended/undesirable system operation may result.

COMMON WIRING DIAGRAMS:

1. Conventional (Heat + AC) 4 Wires Page: 6
2. Conventional (Heat + AC) 5 Wires Page: 8
3. Conventional (Heat + Fan) Page: 10
4. Conventional (AC + Fan) Page: 12
5. Heat Pump System Page: 14

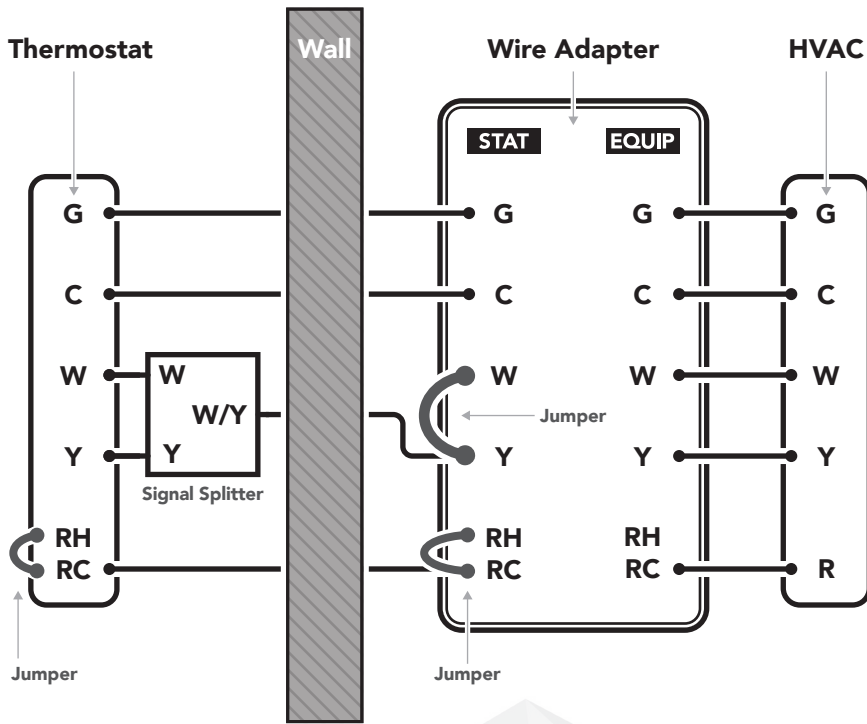
If your system doesn't match one of these configurations, please contact our Customer Experience team.

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1. CONVENTIONAL (HEAT + AC) 4 WIRES



AT THE FURNACE OR HVAC SYSTEM:

1. Connect the RC, Y, W, C, and G terminals on the EQUIP side of the Wire Adapter to the corresponding terminals on the HVAC control board. Use the provided length of wire if necessary.
2. Connect the existing R and G wires (that come from the Thermostat) to the RC and G terminals on the STAT side of the Wire Adapter. Leave the Jumper in place between RC-RH. Note: If the system does not have a G wire, do not connect any of the G terminals.
3. Connect one of the remaining two wires (that come from the Thermostat) to the Y terminal on the STAT side of the

Wire Adapter. Leave the Jumper in place between W-Y.

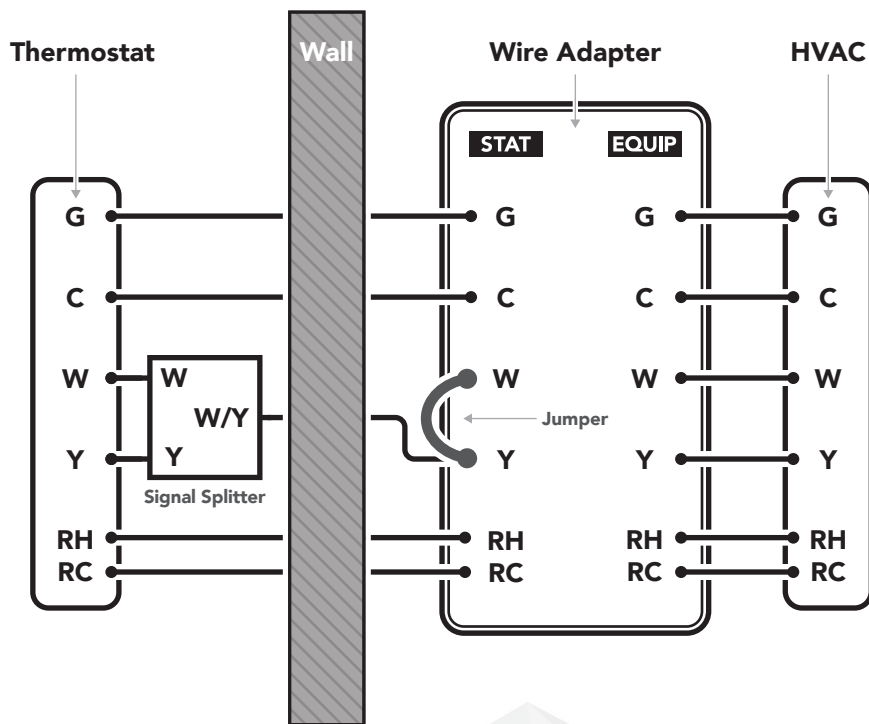
4. Connect the last remaining wire (that comes from the Thermostat) to the C terminal on the STAT side of the Wire Adapter.
5. Cap or tape the ends of any unused wires.

Note: Any additional wires not shown on the diagram can be routed around the wire adapter, directly from the HVAC system to the Thermostat.

AT THE THERMOSTAT:

1. Connect the R and G wires coming from the wall to the RC and G terminals on the Thermostat. Leave the Jumper in place between RC-RH. Note: If the system does not have a G wire, do not connect anything to the G terminal.
2. Find the end of the wire you selected in step 3 above, insert it into the screw clamp on the Signal Splitter, and tighten the screw. Connect the W leg of the Signal Splitter to the W terminal of the Thermostat, and the Y leg of the Signal Splitter to the Y terminal of the Thermostat.
3. Connect the wire you selected in step 4 above to the C terminal of the Thermostat.
4. Arrange the wires to fit in the recess in the rear of the Thermostat, and press the Thermostat into place on the mounting plate. Be sure that there are no bare wires in contact with each other.

2. CONVENTIONAL (HEAT + AC) 5 WIRES



AT THE FURNACE OR HVAC SYSTEM:

1. Connect the RC, RH, Y, W, C, and G terminals on the EQUIP side of the Wire Adapter to the corresponding terminals on the HVAC control board. Use the provided length of wire if necessary.
2. Connect the existing RC, RH, and G wires (that come from the Thermostat) to the RC, RH, and G terminals on the STAT side of the Wire Adapter. Remove the Jumper between RC-RH. Note: If the system does not have a G wire, do not connect any of the G terminals.
3. Connect one of the remaining two wires (that come from the Thermostat) to the Y terminal on the STAT side of the

Wire Adapter. Leave the Jumper in place between W-Y.

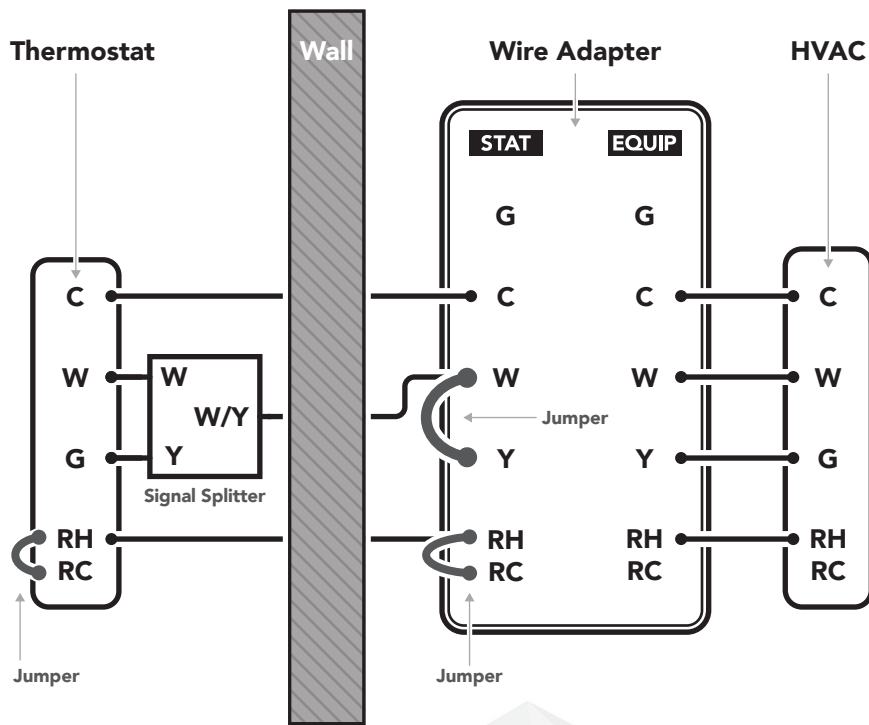
4. Connect the last remaining wire (that comes from the Thermostat) to the C terminal on the STAT side of the Wire Adapter.
5. Cap or tape the ends of any unused wires.

Note: Any additional wires not shown on the diagram can be routed around the wire adapter, directly from the HVAC system to the Thermostat.

AT THE THERMOSTAT:

1. Connect the RC, RH, and G wires coming from the wall to the RC, RH, and G terminals on the Thermostat. Remove the Jumper between RC-RH. Note: If the system does not have a G wire, do not connect anything to the G terminal.
2. Find the end of the wire you selected in step 3 above, insert it into the screw clamp on the Signal Splitter, and tighten the screw. Connect the W leg of the Signal Splitter to the W terminal of the Thermostat, and the Y leg of the Signal Splitter to the Y terminal of the Thermostat.
3. Connect the wire you selected in step 4 above to the C terminal of the Thermostat.
4. Arrange the wires to fit in the recess in the rear of the Thermostat, and press the Thermostat into place on the mounting plate. Be sure that there are no bare wires in contact with each other.

3. CONVENTIONAL (HEAT + FAN)



AT THE FURNACE OR HVAC SYSTEM:

1. Connect the R, W, and C terminals on the EQUIP side of the Wire Adapter to the corresponding terminals on the HVAC control board. Connect the G terminal on the HVAC board to the Y terminal on the Wire Adapter. Use the provided length of wire if necessary.
2. Connect the existing R wire (that comes from the Thermostat) to the RH terminal on the STAT side of the Wire Adapter. Leave the Jumper in place between RC-RH.
3. Connect one of the remaining two wires (that come from the Thermostat) to the W terminal on the STAT side of

the Wire Adapter. Leave the Jumper in place between W-Y.

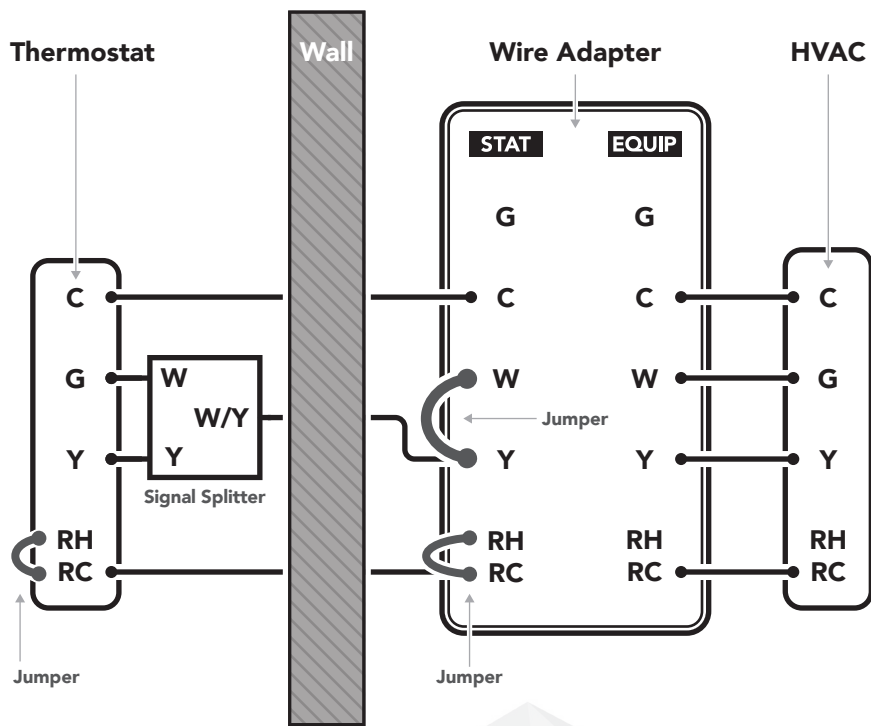
4. Connect the last remaining wire (that comes from the Thermostat) to the C terminal on the STAT side of the Wire Adapter.

Note: Any additional wires not shown on the diagram can be routed around the wire adapter, directly from the HVAC system to the Thermostat.

AT THE THERMOSTAT:

1. Connect the R and G wires coming from the wall to the RH and G terminals on the Thermostat. Leave the Jumper in place between RC-RH.
2. Find the end of the wire you selected in step 3 above, insert it into the screw clamp on the Signal Splitter, and tighten the screw. Connect the W leg of the Signal Splitter to the W terminal of the Thermostat, and the Y leg of the Signal Splitter to the G terminal of the Thermostat.
3. Connect the wire you selected in step 4 above to the C terminal of the Thermostat.
4. Arrange the wires to fit in the recess in the rear of the Thermostat, and press the Thermostat into place on the mounting plate. Be sure that there are no bare wires in contact with each other.

4. CONVENTIONAL (AC + FAN)



AT THE FURNACE OR HVAC SYSTEM:

1. Connect the R, Y, and C terminals on the EQUIP side of the Wire Adapter to the corresponding terminals on the HVAC control board. Connect the G terminal on the HVAC board to the W terminal on the Wire Adapter. Use the provided length of wire if necessary.
2. Connect the existing R wire (that comes from the Thermostat) to the RC terminal on the STAT side of the Wire Adapter. Leave the Jumper in place between RC-RH.
3. Connect one of the remaining two wires (that come from the Thermostat) to the Y terminal on the STAT side of the

Wire Adapter. Leave the Jumper in place between W-Y.

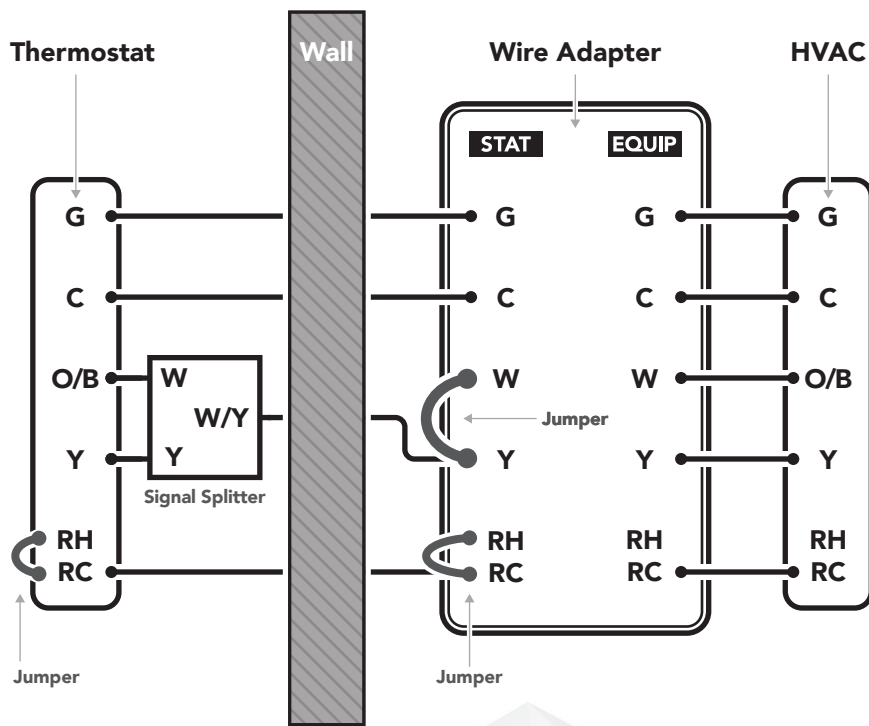
4. Connect the last remaining wire (that comes from the Thermostat) to the C terminal on the STAT side of the Wire Adapter.

Note: Any additional wires not shown on the diagram can be routed around the wire adapter, directly from the HVAC system to the Thermostat.

AT THE THERMOSTAT:

1. Connect the R and G wires coming from the wall to the RH and G terminals on the Thermostat. Leave the Jumper in place between RC-RH.
2. Find the end of the wire you selected in step 3 above, insert it into the screw clamp on the Signal Splitter, and tighten the screw. Connect the W leg of the Signal Splitter to the W terminal of the Thermostat, and the Y leg of the Signal Splitter to the G terminal of the Thermostat.
3. Connect the wire you selected in step 4 above to the C terminal of the Thermostat.
4. Arrange the wires to fit in the recess in the rear of the Thermostat, and press the Thermostat into place on the mounting plate. Be sure that there are no bare wires in contact with each other.

5. HEAT PUMP SYSTEM



AT THE FURNACE OR HVAC SYSTEM:

1. Connect the RC, Y, C, and G terminals on the EQUIP side of the Wire Adapter to the corresponding terminals on the HVAC control board. Connect the O/B (or O, or B) wire on the HVAC control board to the W terminal of the Wire Adapter. Use the provided length of wire if necessary.
2. Connect the existing R and G wires (that come from the Thermostat) to the RC and G terminals on the STAT side of the Wire Adapter. Leave the Jumper in place between RC-RH. Note: If the system does not have a G wire, do not connect any of the G terminals.

3. Connect one of the remaining two wires (that come from the Thermostat) to the Y terminal on the STAT side of the Wire Adapter. Leave the Jumper in place between W-Y.
4. Connect the last remaining wire (that comes from the Thermostat) to the C terminal on the STAT side of the Wire Adapter.
5. Cap or tape the ends of any unused wires.

Note: Any additional wires not shown on the diagram can be routed around the wire adapter, directly from the HVAC system to the Thermostat.

AT THE THERMOSTAT:

1. Connect the R and G wires coming from the wall to the RC and G terminals on the Thermostat. Leave the Jumper in place between RC-RH. Note: If the system does not have a G wire, do not connect anything to the G terminal.
2. Find the end of the wire you selected in step 3 above, insert it into the screw clamp on the Signal Splitter, and tighten the screw. Connect the W leg of the Signal Splitter to the O/B terminal of the Thermostat, and the Y leg of the Signal Splitter to the Y terminal of the Thermostat.
3. Connect the wire you selected in step 4 above to the C terminal of the Thermostat.
4. Arrange the wires to fit in the recess in the rear of the Thermostat, and press the Thermostat into place on the mounting plate. Be sure that there are no bare wires in contact with each other.

