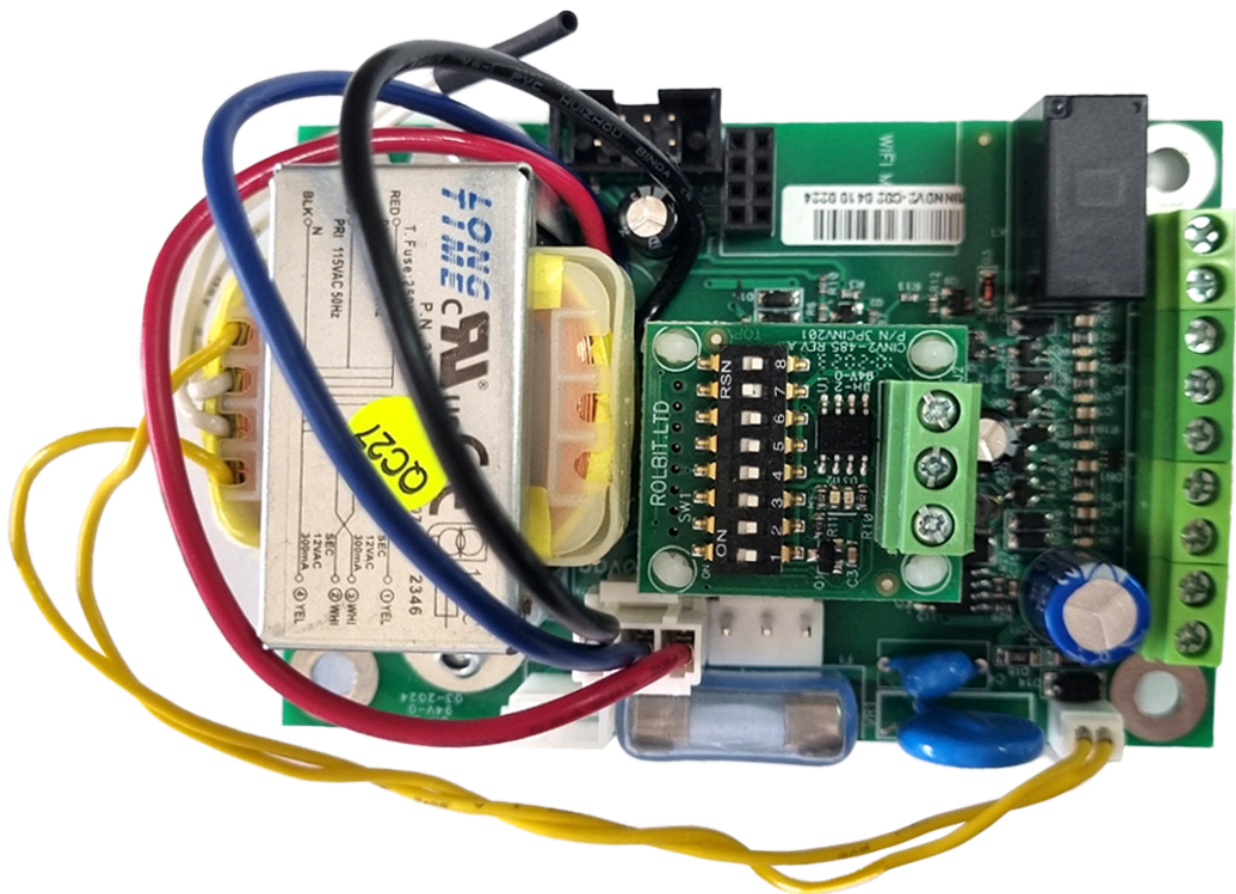




Installation Manual

Third Party Thermostat Gateway MOD-TPG For Wall Mounted (Gen 2)





CONTENTS

CONTENTS	2
AIO THIRD PARTY THERMOSTAT GATEWAY MOD-TPG FOR WALL MOUNTED (GEN 1)	2
GENERAL INFORMATION	4
PREPARATION FOR INSTALLATION	6
Location considerations	6
Shipping configuration	7
Inspecting the unit	7
Materials provided	7
Tools and supplies needed	7
OPENING THE AIO WALL MOUNTED UNIT	8
INSTALLING THE MOD-TPG THIRD-PARTY GATEWAY BOARD	11
CONNECTING THE THERMOSTAT	15
CLOSING UP THE UNIT	16
Warranty Information	18



AIO THIRD PARTY THERMOSTAT GATEWAY MOD-TPG FOR WALL MOUNTED (GEN 1)

The Third Party Thermostat Gateway (MOD-TPG) offers the ability to control AIO units with any standard or smart thermostat. AIO's Brushless DC electric motor (BLDC) inverter compressor can not be controlled by a regular or smart thermostat, which simply sends an on-off signal. The TPG sends signals from the connected standard or smart thermostat to AIO's processor, which then controls the inverter compressor.

Ephoca is constantly innovating and improving its products and reserves the right to modify product design and specifications without notice and without incurring any obligations.

Ephoca is the US subsidiary of Innova SRL - Via 1° Maggio, 8 - 38089 Storo (TN), Italy.
© 2024 Ephoca. All rights reserved.



SAFETY WARNING



Only qualified professionals should install and service this equipment. Improper installation or modifications by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the installation manual and on labels attached to the equipment.

GENERAL INFORMATION

Please read this entire manual carefully prior to installation.

Warnings, Cautions, and Attentions are included throughout this manual. It is important to read each carefully and follow their stated instructions.

Note: This manual is shipped with the controller and is the property of the customer. Please make sure this manual is left in the customer's possession.

This manual details the proper steps to take for the safe installation of the Advanced Touchscreen Controller, which includes two components: The GWB20 Gateway Board, which is installed into the AIO Wall Mounted unit, and the TFTH20 Advanced Touchscreen Controller.

By paying close attention to these instructions, the risk of improper installation, poor performance, and damage to the equipment can be greatly reduced.

In the event there is a problem with the Advanced Touchscreen Controller or AIO Wall Mounted unit, please call a qualified/certified HVAC technician to inspect the controller and conduct repairs if needed.

WARNING

Please read this manual carefully prior to the installation and operation of the unit. **Failure to do so can result in death, serious injury, and/or property damage.**

WARNING

Do not use flammable liquids such as cleaners, hairspray, etc., around the touchscreen controller.

The use of flammable liquids near the touchscreen controller may result in a **fire, death, serious injury, and/or property damage.**

WARNING

Used to advise of a situation or potential situation which, if not avoided, may result in death, serious injury, and/or property damage.

CAUTION

Used to advise of a situation or potential situation which, if not avoided, may result in minor to moderate injuries.

 ATTENTION

Used to advise of a situation or potential situation which, if not avoided, may result in less-than-optimum performance of the unit.

PREPARATION FOR INSTALLATION

Please read all instructions carefully. The MOD-TPG Third Party Gateway is an optional component for the AIO Wall Mounted unit. It must only be used for this purpose. For more detailed information about the AIO, consult its installation and operation guide.

WARNING

- Disconnect all electrical power before making any connections.
- All electrical connections and wiring must be installed by a qualified electrician and conform to the National Electrical Code as well as all local codes having jurisdiction.
- Repairs and/or maintenance must be performed by qualified personnel in accordance with this manual.
- Do not open access panels to the interior of the unit without first disconnecting the power and/or turning off the breaker.
- Do not modify or tamper with the equipment, as this could create dangerous situations.

Failure to follow these warnings can result in death, serious injury, and/or property damage.

Location considerations

The thermostat must be mounted indoors where it is not exposed to the elements. It should also be mounted on a wall that provides a good representation of the average temperature in the space.

The thermostat should NOT be mounted in any of the following locations:

- Where it may be exposed to wind, rain, or mist, e.g., near doors or windows that are frequently opened.
- Near any heat source or heating vent.
- In direct sunlight.
- In areas prone to being dusty or dirty.
- Where it is not easily accessible.
- In areas where the temperature may be outside of 15°F - 120°F.
- In areas where the humidity can exceed 95%.
- Near machinery that produces electromagnetic interference (EMI).

(The presence of EMI can disrupt the normal operation of the thermostat.)

Shipping configuration

The MOD-TPG015 Third Party Gateway Board is shipped in a single carton.

Inspecting the unit

Upon receiving the package, it is important to inspect it immediately for shipping damage prior to accepting the shipment.

- Ensure the contents match the order and shipping documents.
- Inspect all components' accessories for any damage that may have occurred during shipping.
- If the package appears damaged, carefully note the damage on the freight bill and refuse acceptance of the shipment.
- Report any damage to your Ephoca representative or contractor. Failure to document damages and follow the appropriate claims process and time frame may result in the claim being denied.

Materials provided

You should receive the following:

- MOD-TPG Third Party Gateway Board.
- Board Installation Guide.

Tools and supplies needed

- Phillips head screwdriver.
- Flathead screwdriver.
- Sufficient length of 18 AWG thermostat wire to run between the AIO Wall Mounted unit and the MOD-TPG015 Third Party Gateway Board.
- Thermostat from another manufacturer.

OPENING THE AIO WALL MOUNTED UNIT

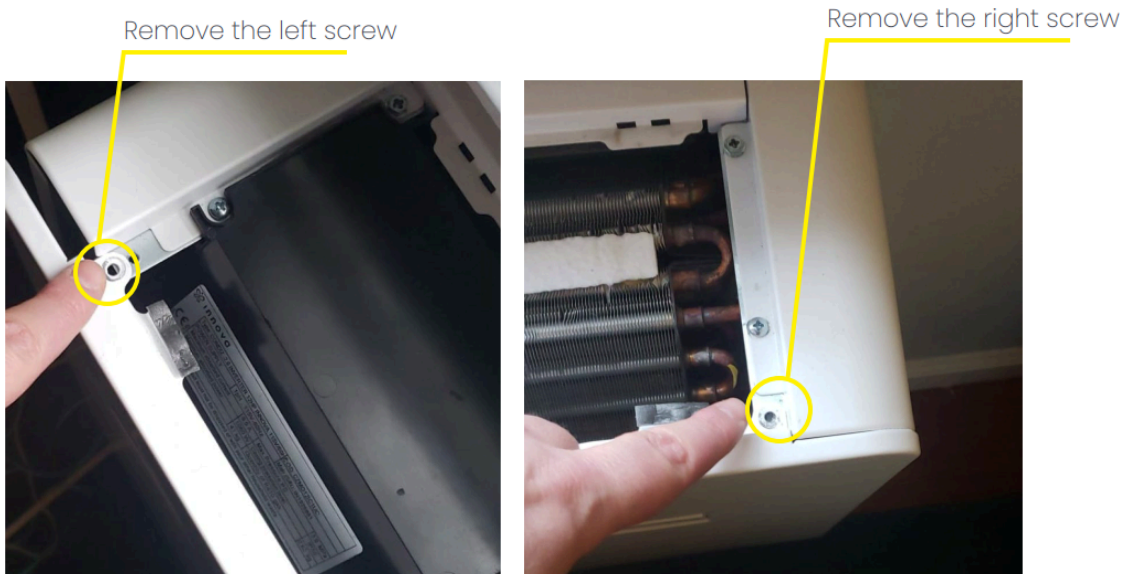
Step 1

Lift off the top grille of the AIO Wall Mounted unit to expose the filter; remove the filter.



Step 2

Remove the two (2) screws holding the front cover in place.



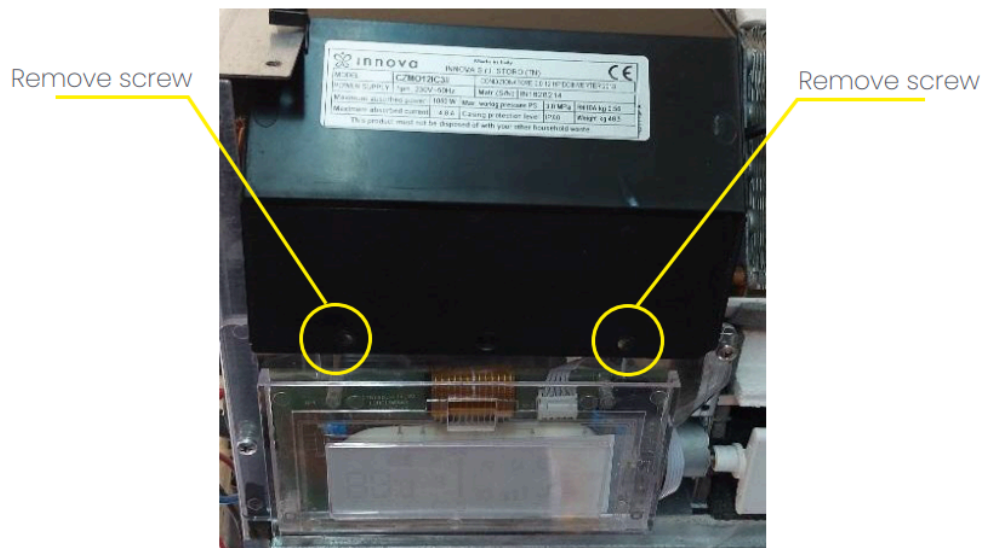
Step 3

Gently pull the front cover off by lifting up and pulling forward.



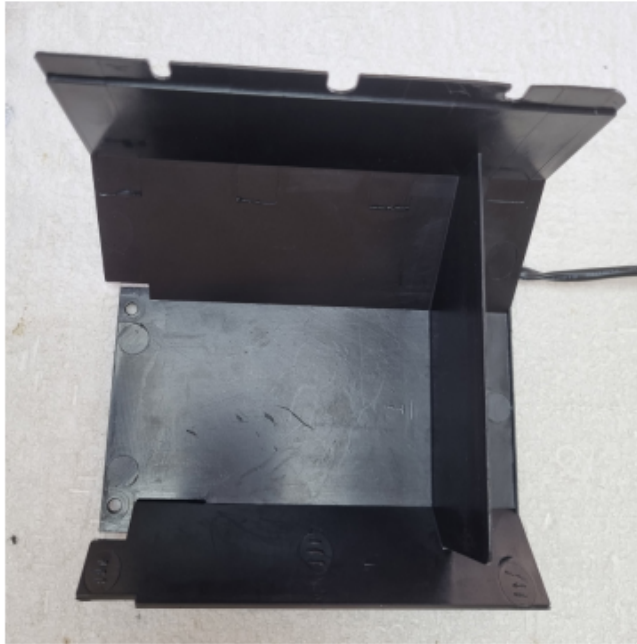
Step 4

Remove the four (4) screws securing the black plastic electrical protective cover and place it to the side. Keep the sensor attached to the protective cover; do not attempt to remove it.



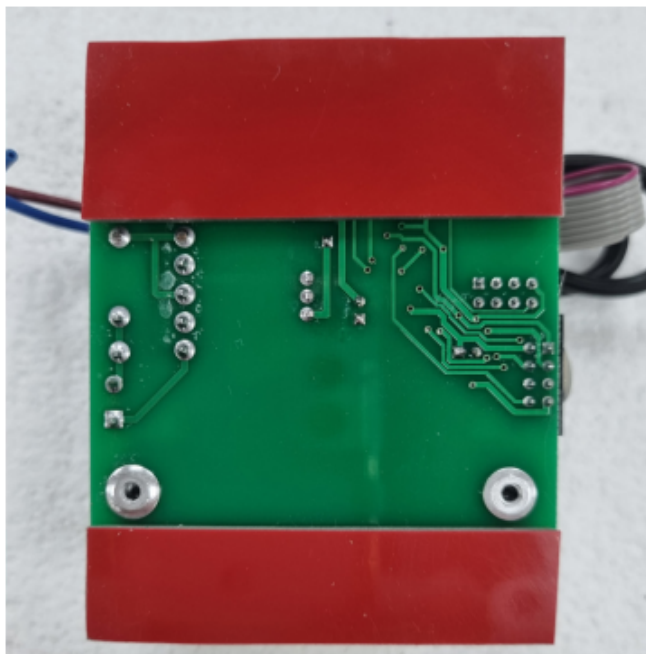
Step 5

Remove the black plastic electrical protective cover and place it on the side.



Step 6

Take the MOD-TPG Third Party Gateway Board, turn it over, and remove the adhesive cover strips.



INSTALLING THE MOD-TPG THIRD-PARTY GATEWAY BOARD

Step 1

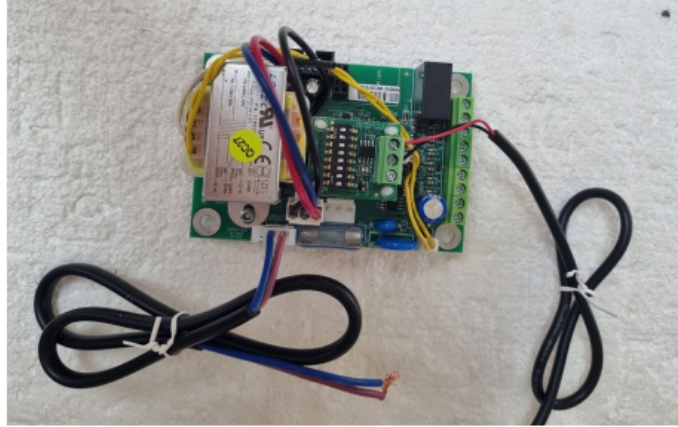
Secure the MOD-TPG Third Party Gateway Board to the back of the underside of the black plastic electrical protective cover. It should be placed one inch from the right side, as shown in the pictures below.



Step 2

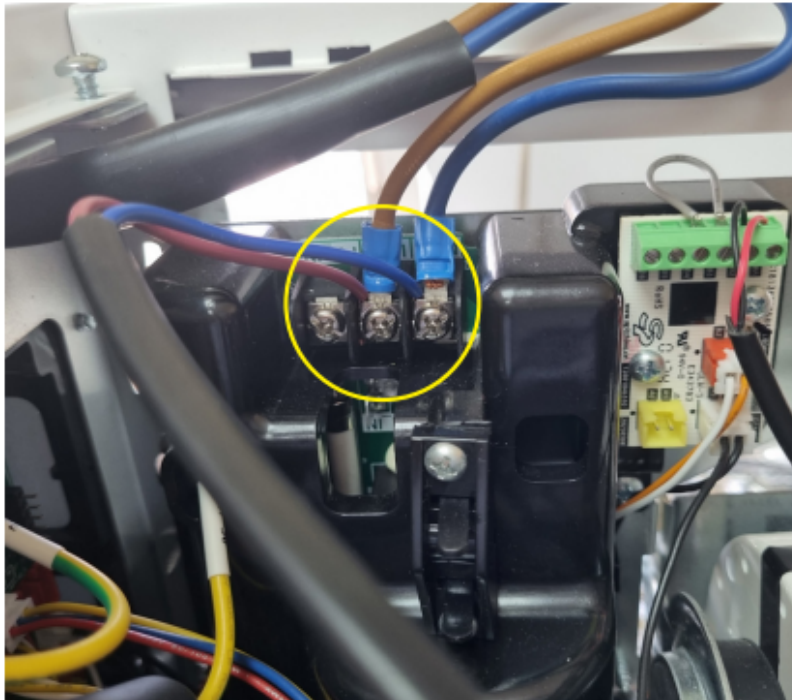
The MOD-TPG is supplied with the following cables:

- Power cable (on left).
- Communication cable (on right).



To connect the power cable

1. Gently unscrew the two screws holding in the blue and brown wires. Slide the blue wire over the blue wire and the red over the brown wire. Fasten the screws.



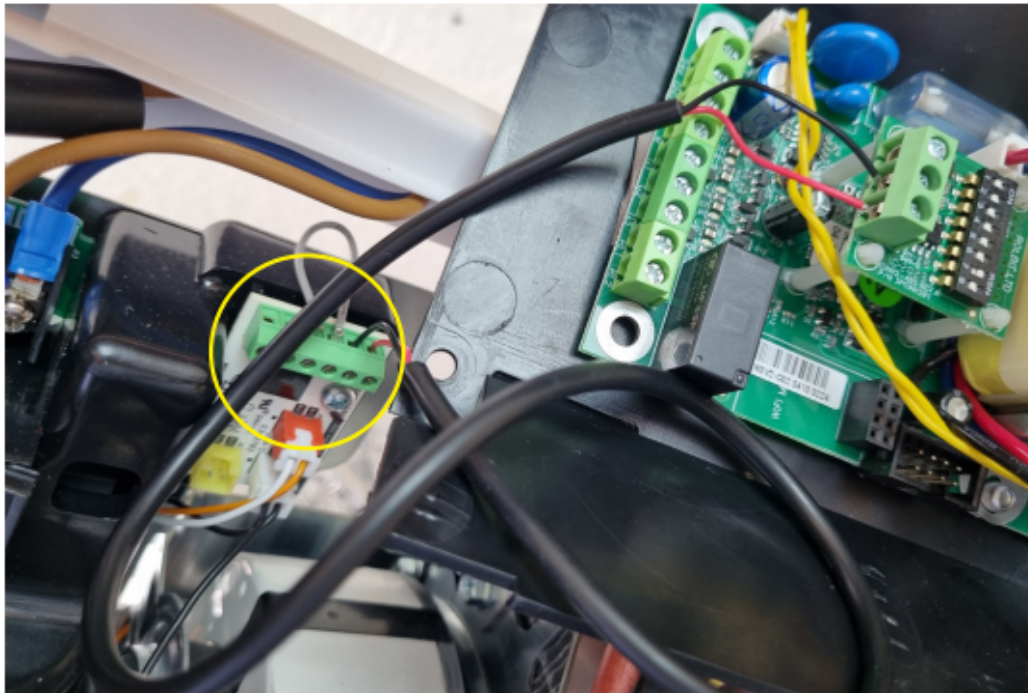
2. Verify that the quick-connect plug (white plastic) is securely fastened to the MOD-TPG board.



Step 3

To connect the power cable:

1. Connect the red wire (A) and the black (B) wire to the Junction board on the unit.
2. Connect the other side of the wires to the MOD-TPG piggy-back board to the A and B terminals.



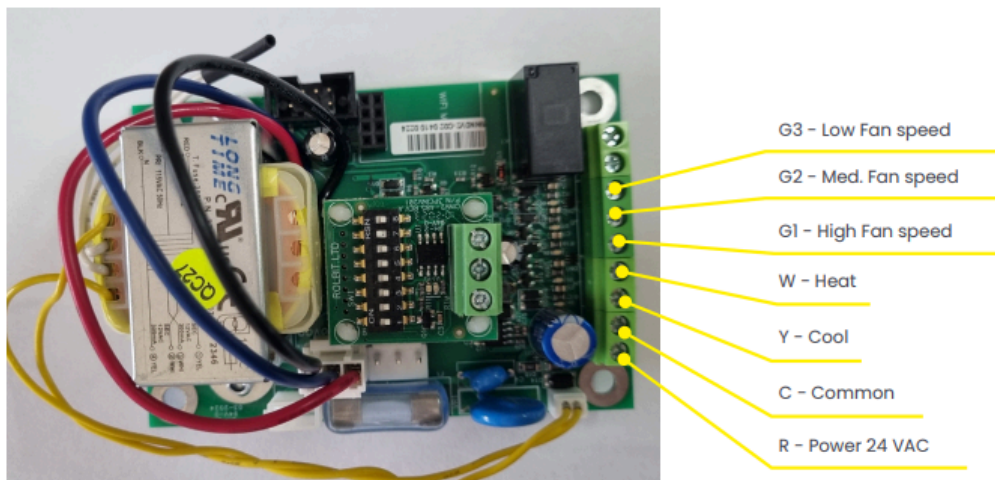
CONNECTING THE THERMOSTAT

Step 1

With the power remaining disconnected, connect the 18-AWG thermostat from the thermostat through the back of the AIO unit to the MOD-TPG Third Party Gateway Board.

ATTENTION

If using a thermostat that has only a single fan speed, you must choose which fan speed you want the AIO unit to operate at by attaching the fan output to G1 for high fan, G2 for medium fan, or G3 for low fan. We recommend using the G2 medium fan.



Step 2

Follow the instructions from the manufacturer on the thermostat you are using and connect all the wires from the MOD-TPG Third Party Gateway Board to the corresponding inputs on the thermostat.



CLOSING UP THE UNIT

Step 1

Place the black plastic electrical protective cover back in place (do not affix it with screws yet). This is only to cover the electrical connections while you test the unit.



Step 2

Power up the AIO Wall Mounted unit and test the thermostat you have connected to make sure it changes the temperature and modes, etc.

Step 3

Screw back in the four (4) screws securing the black plastic electrical protective cover and place it to the side.

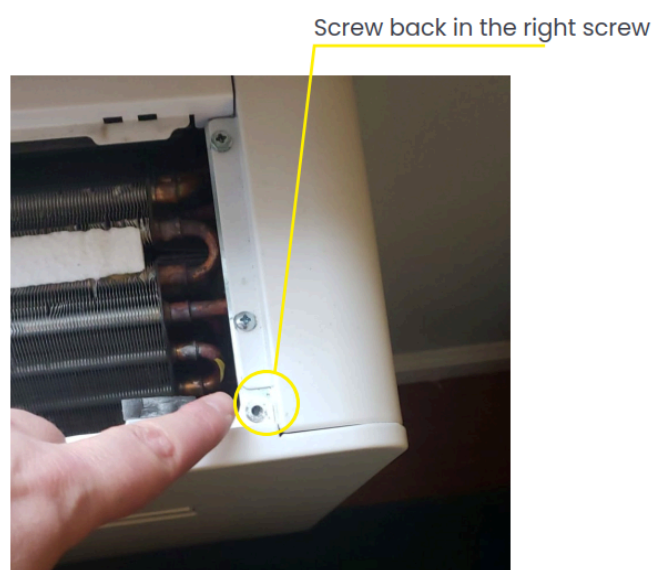
Step 4

Put the front cover back on the AIO unit.



Step 5

Replace the two (2) screws removed earlier, securing the front cover to the AIO unit.



Step 6

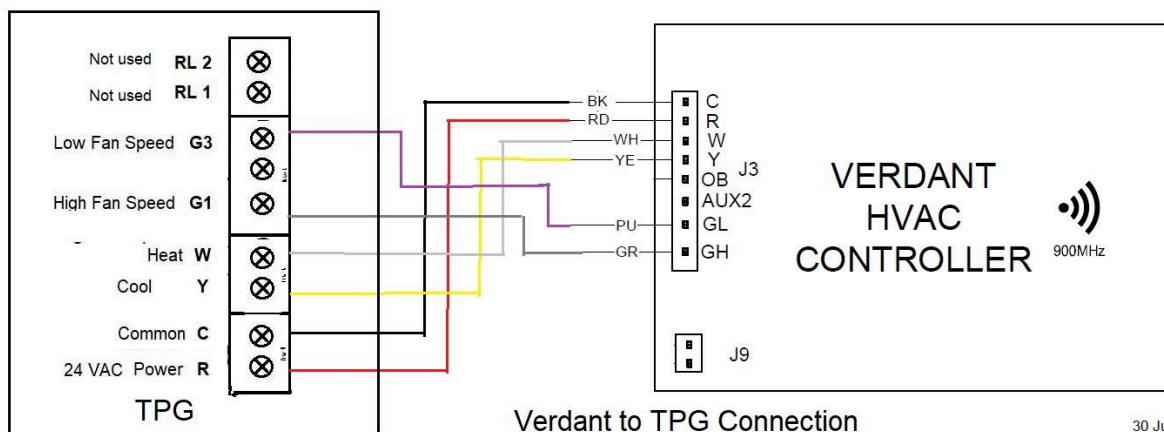
Place back the filter and the top grille of the AIO Wall Mounted unit.



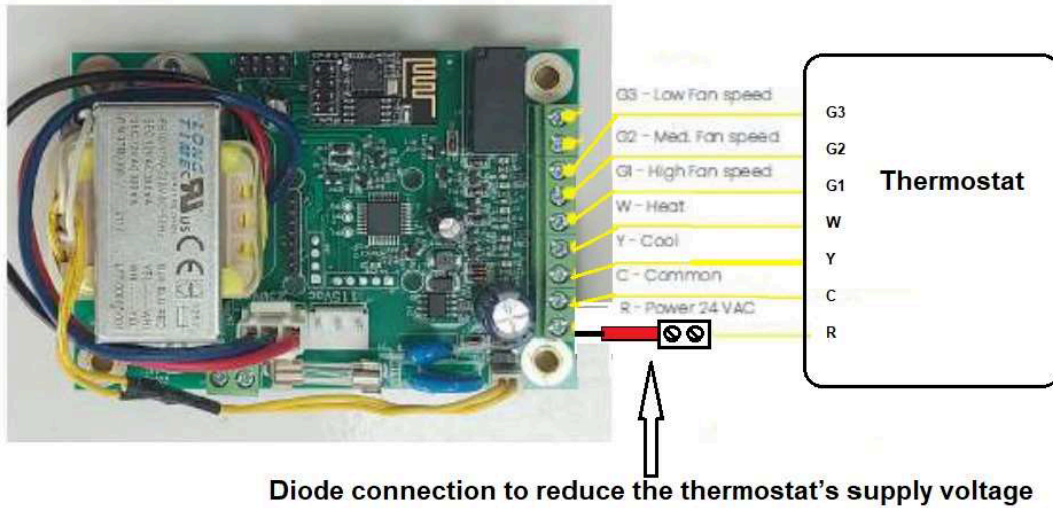
Step 7

The MOD-TPG Third Party Touchscreen Controller is powered by the AIO. Whenever power is supplied to the AIO, the Touchscreen Controller is also powered. If the controller does not appear to be energized, check the electrical supply to the AIO.

TPG CONNECTIONS TO VERDANT CONTROLLER



TPG DIODE CONNECTIONS TO REDUCE SUPPLY VOLTAGE



Warranty Information

For terms and conditions, click on the link below:

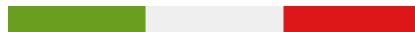
[Controller Warranty - 2025](#)



With over 20 years of experience in the climate comfort sector, we have a clear goal: growth through innovation. Our team is laser-focused on the conception, development, and production of innovative heating, ventilation, and air conditioning solutions. This mission has developed through bringing together technical skills, creativity, technology, design, Italian passion, and a global vision to achieve the best energy efficiency and performance.

Ephoca is the US subsidiary of Innova SRL - Via 1° Maggio, 8 - 38089 Storo (TN), Italy.

ephoca.com | 216-710-1000



MADE IN ITALY

© 2025 Ephoca. All rights reserved
Third Party Thermostat Gateway (MOD-TPG) Installation Manual