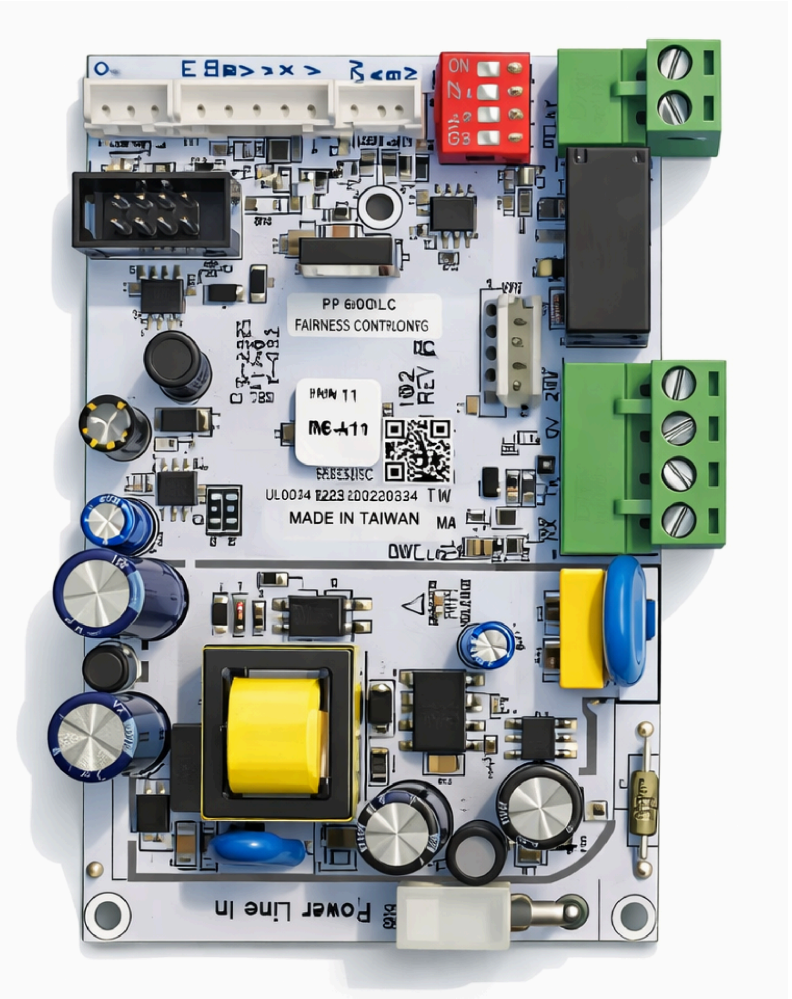
AIO® GWN – Verdant / INNOVA Gateway

Installation Guide



innova

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1. GENERAL INFORMATION

This installation will connect INNOVA air conditioning units with the Verdant Building Automation System (BAS), allowing seamless integration and control. The CI-EMR gateway is an intermediary between the INNOVA air conditioning units and the Verdant BAS, enabling connection to the Cloud Apartment gateway control board.

By adding the CI-EMR to the air conditioning, the standard Verdant Thermostat can be used with all the existing control automation features at the site for the INNOVA air conditioning units. No changes should be made to the building automation system, ensuring that the building operation remains the same as before the old units were replaced with the INNOVA units. This module is compatible only with the old controller. Please read this entire manual carefully prior to installation.

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

This manual outlines the steps required to install the Verdant CI-EMR gateway. 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 unit, please call a qualified/certified HVAC technician to inspect the controller and conduct repairs if needed.

⚠WARNING

- Please read this manual carefully before 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 controller. The use of flammable liquids near the controller may result in **a fire, death, serious injury, and/or property damage.**

⚠WARNING

Use only the supplied installation-specific components is recommended. Using different components could lead to water leakage, electric shock, or fire.

⚠ATTENTION

- The installation must be performed by a certified installer.
- All safety regulations in force at the place of installation, as well as common sense precautions, must be followed.
- Failure to apply the indicated rules may cause malfunctions of the appliances and relieve the manufacturer from any warranty and any damage caused to persons, animals, or property.
- Wear appropriate personal protective equipment (PPE) such as gloves and safety glasses during the installation process.

2. PREPARATION FOR INSTALLATION

Please read all instructions carefully. The Verdant GWN gateway is an optional component for the unit. It must only be used for this purpose. For more detailed information about the unit, consult its installation and operation guide.

⚠WARNING

- Disconnect all electrical power before making connections.
- All electrical connections and wiring must be installed by a qualified electrician and conform to the National Electric Code as well as all local codes having jurisdiction.
- Repairs and/or maintenance must be performed by qualified personnel in accordance with this manual.
- Disconnect the power and/or turn off the breaker to the unit prior to opening access panels to the interior of the unit
- Do not modify or tamper with the equipment, as it could create dangerous situations.
- **Failure to follow these warnings can result in death, serious injury, and/or property damage.**

2.1 Shipping Configuration

The Verdant GWN gateway is shipped in a single package.

2.2 Inspecting the unit

Upon receiving the package, inspect it immediately for any signs of 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 to the freight bill and refuse acceptance of the shipment.

Report any damage to your INNOVA representative or contractor. Failure to document damages and follow the appropriate claims process and timeframe may result in the claim being denied.

2.3 Materials provided

You should receive in the box:

GWN Gateway with three Plastic Stand-ups and two double-sided adhesive strips.

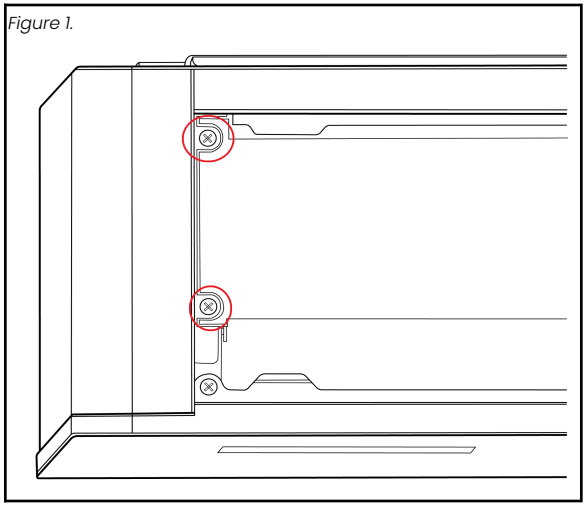
2.4 Materials needed

Verdant Thermostat and Controller

2.5 Installing the GWN Gateway Board

Step 1
Remove the two (2) screws holding the left side panel.

Figure 1.



Step 2
At the inner metal panel, if there are 3 mounting holes insert the three plastic stand-ups.

If there are no holes, use the two double-sided adhesive strips.

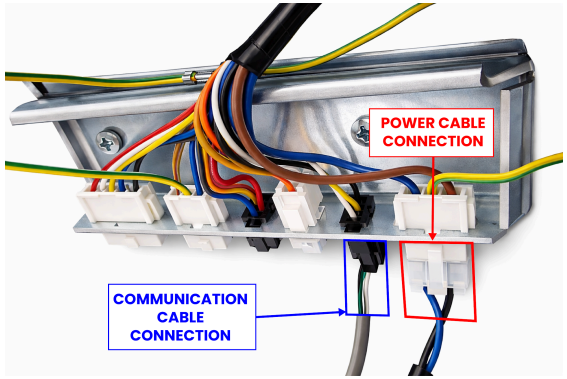
Step 3
Mount the GWN control board on top of the three stand-ups or use two double-sided adhesive strips.

Figure 2.



Step 4
Connect the power cable (Black color) and the communication cable (Gray color) as below.

Figure 3.



Step 5
Set the GWN - Dip Switches as follows:

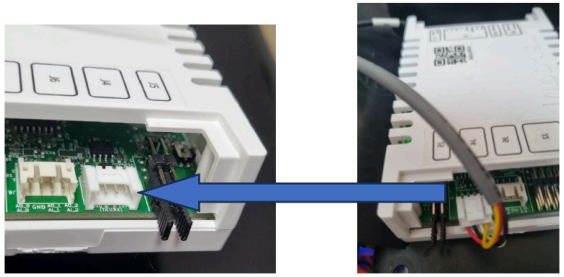
Dip Switch - SW1

Dip #1	Dip #2	Dip #3	Dip #4
AC Type	**Emerson**	**N/A**	**N/A**
OFF *New AC GEN2*	**OFF**	**OFF**	**OFF**
ON *Old AC GEN1- VS*	**ON**	**OFF**	**OFF**

2.6 Installing the Verdant HVAC Controller

Step 6
Take the VERDANT HVAC controller out of the box and place the two jumpers at J5 to the lower two pins on the Verdant unit.

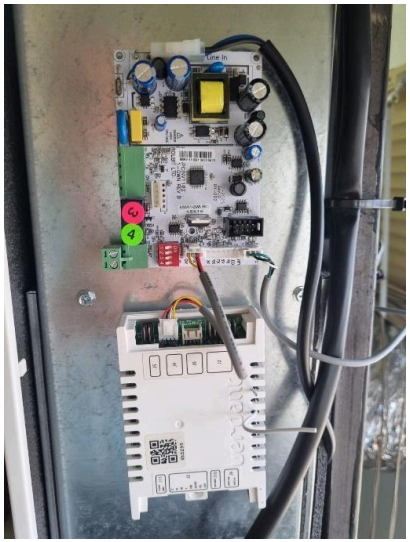
Figure 4.



Step 7
The VERDANT HVAC controller should mount below the GWN.

Use two double-sided adhesive strips to hold the VERDANT Controller.

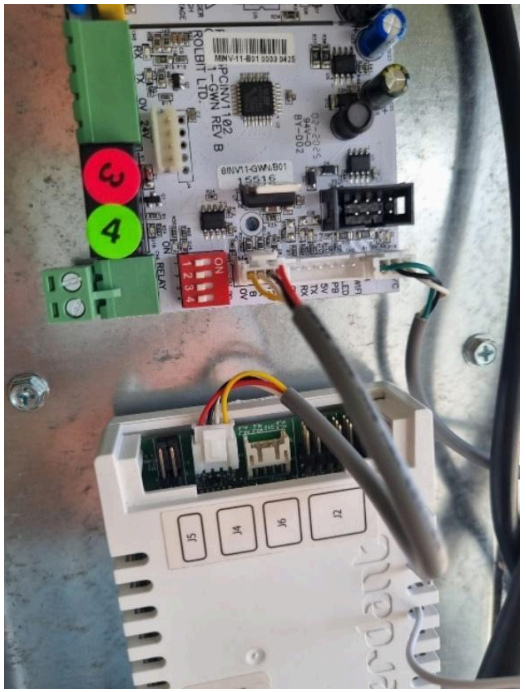
Figure 5.



Step 8
Connect the communication RS485 cable between the GWN gateway at VERDANT connector to the Verdant controller at the J4 connector.

This cable must be purchased separately directly from INNOVA.

Figure 6.



Make sure all plug connectors are tight and secure.

Figure 7.

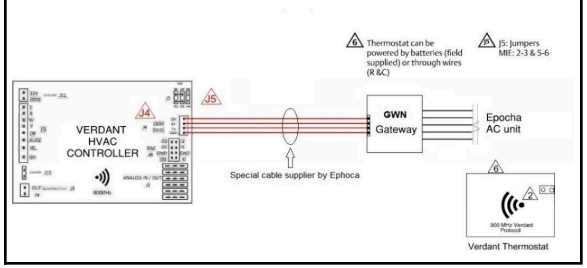
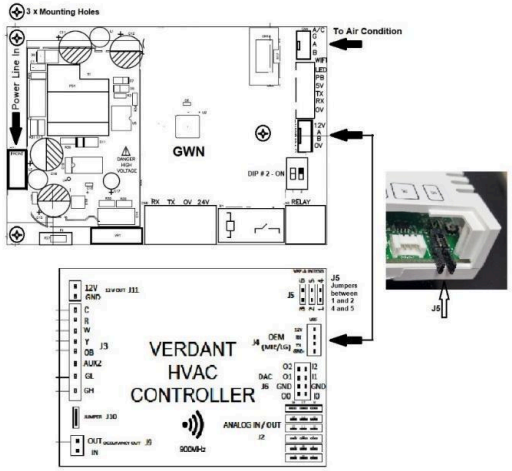


Figure 8.



Step 9
Closing the Unit - Replace the screws removed earlier, securing the right-side panel to the frame of the unit.

2.7 Configuring the verdant thermostat

2.7.1 Pairing the Thermostat with the HVAC Controller

Figure 9.



Each wireless thermostat must be paired with an individual HVAC Controller during installation. The thermostat will search for the closest HVAC Controller to it and display the unique HVAC Controller ID. The HVAC Controller ID is located on the case of the HVAC Controller. Only install one room at a time.

To pair the thermostat:

1. Press the F|C button once, the thermostat will initiate a thirty (30) second countdown with a blinking connectivity icon before displaying the HVAC Controller ID closest to it.
2. Verify that the HVAC controller ID found by the thermostat matches the ID's last 5 digits listed on the HVAC controller in the same room.
3. Press the F|C button to pair the thermostat with the HVAC Controller displayed on the screen. The screen will display "SUCC" when the HVAC Controller has been paired successfully. If the HVAC Controller ID displayed on the screen is incorrect, press the FAN button to reject it and follow the bolded section below.
4. If pairing is successful, wait 5-10 seconds and then press the F|C button to advance to the Mesh ID configuration page.
    - If the HVAC controller ID displayed does not match, press the down button to see what other controllers are trying to connect with the thermostat. Keep pressing until you identify the matching controller number.
    - If no controller ID is found, "FAIL" will appear on the screen, press the ON/OFF button to get back to the initial setup screen.

2.7.2 Setting the Mesh ID

Figure 10



NOTE: For networked installations, a unique MESH ID is associated to each Online Connection Kit and is provided by your technical support agent during the installation training (can also be found labeled on the device).

For properties using a single Online Connection Kit, each thermostat may be linked to MESH ID 0001. For properties requiring multiple Online Connection Kits, each thermostat should be linked to the MESH ID of the Online Connection Kit closest to it.

To set the MESH ID:

1. Press the FAN button to advance to the next digit.
2. Press the UP and DOWN buttons to increase or decrease the value.
3. Press the F|C button to advance to the next step.

NOTE:

- Press the UP and DOWN button to change the values
- Press the FAN button to navigate from left to right

2.8 Configuring the verdant thermostat

2.8.1 Entering the Room Number

Figure 11



Enter the room number by changing the characters on the screen.

Available characters include digits 0-9 and letters A-F. To enter the number:

- Press the FAN button to advance to the next digit.
- Press the UP and DOWN buttons to increase or decrease the value.
- Press the F|C button to advance to the next menu.

To distinguish between two or more thermostats in the same unit, enter as follows:

- Thermostat 1: 00100
- Thermostat 2: 0100A

Entering the room number correctly is crucial for the proper operation of thermostats with online management.

2.9 Configuring the Equipment Settings

Figure 12



Enter the equipment code by changing the digits on the screen.

- Press the FAN button to advance to the next equipment setting.
- Press the UP and DOWN buttons to increase or decrease the value.
- Press the F|C button to advance to the next menu.

IMPORTANT: Inserting the wrong equipment code may cause the hvac unit not operating as expected.

2.10 Configuring the verdant thermostat

2.10.1 Configuring the Energy Saving Settings

Figure 13



- Press the UP and DOWN buttons to increase or decrease the energy savings preset.
- Press the F|C button to advance to the next menu.

Preset	Energy Savings Presets
E-0*(1)	Energy Savings Off - No Temperature Setback
E-1	Lowest Energy Savings
E-2	Lower Energy Savings
E-3	Standard Energy Savings
E-4	Higher Energy Savings
E-5	Highest Energy Savings

Notes
(1) *Indicates default setting

2.10.2 Setting the thermostat clock

Figure 14



Set the thermostat clock to the current time in 24h (Military Time) format.

- Press the FAN button to advance to the next digit.
- Press the UP and DOWN buttons to increase or decrease the digits.
- Press the F|C button once to go to the current room temperature screen.

Setting the correct time is crucial for the proper operation of the thermostat.

After setting the thermostat, the setup is complete.

For additional information on setting the thermostat, please refer to VERDANT operation and installation manual.

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.

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MADE IN ITALY

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Revised August 20, 2026

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