Gaiamesh Integrator v3

Model: GM-IN-3 Abbreviation: IN

Installation Manual

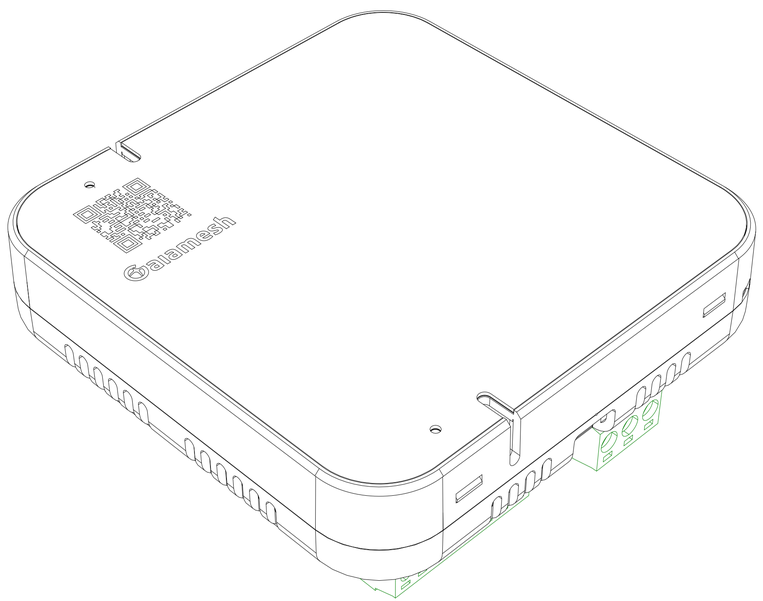


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Product Highlights

Simple wireless installation – simply replace existing switches, no additional cabling required.

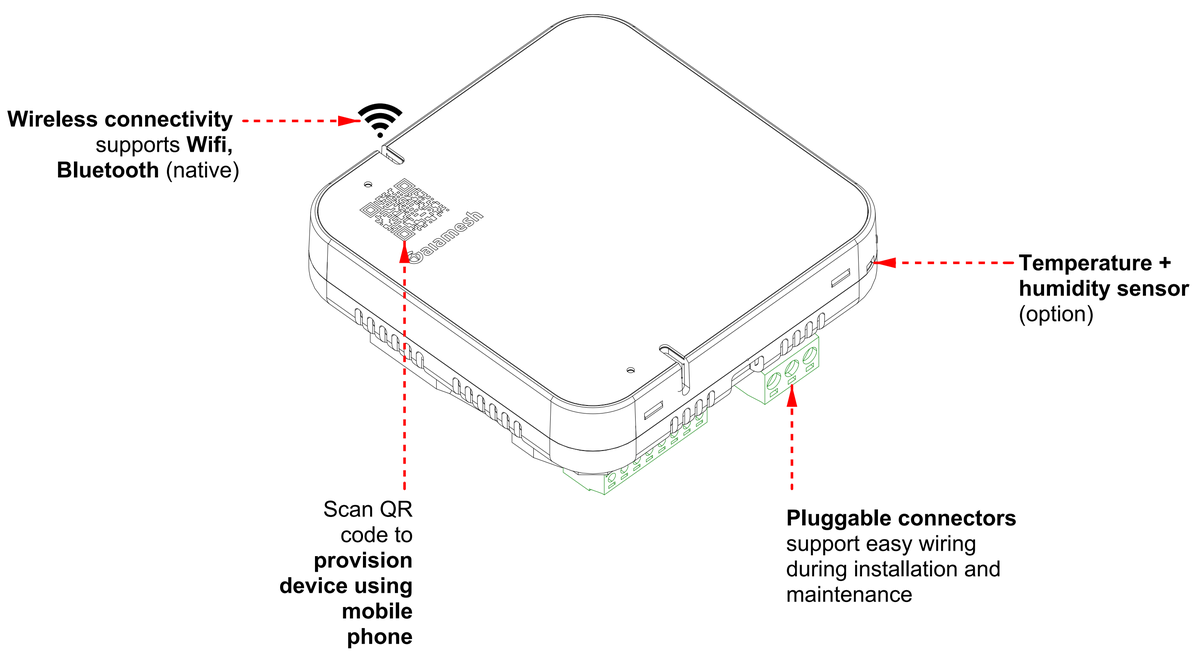
Seamless commissioning – device automatically joins wireless mesh and links to cloud upon power-up

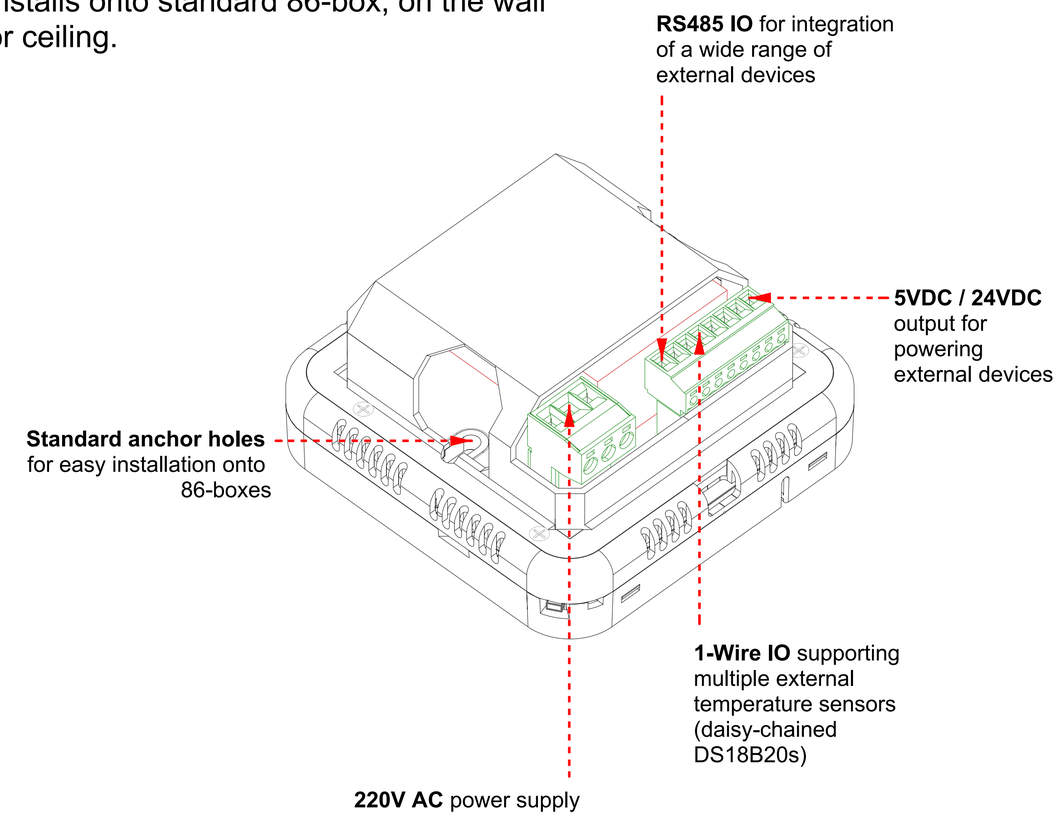
Powerful Modbus integration capability – can integrate a wide range of devices, with capacity of up to 500 Modbus points.

On-board data storage – Can store up to 200K readings

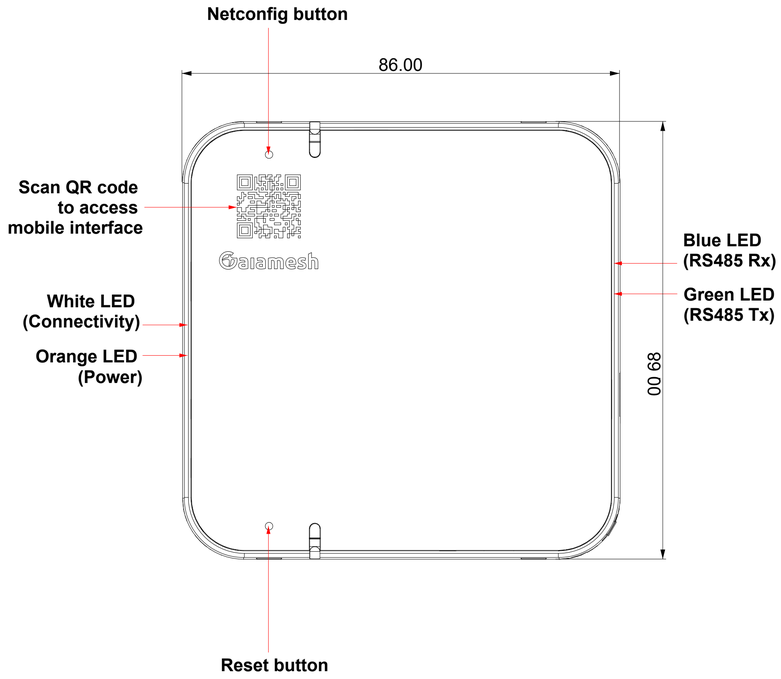
Power output – eliminates additional cabling and power supplies for external low-power devices

Compact size – 86x86x43mm form factor installs onto standard 86-box, on the wall or ceiling.

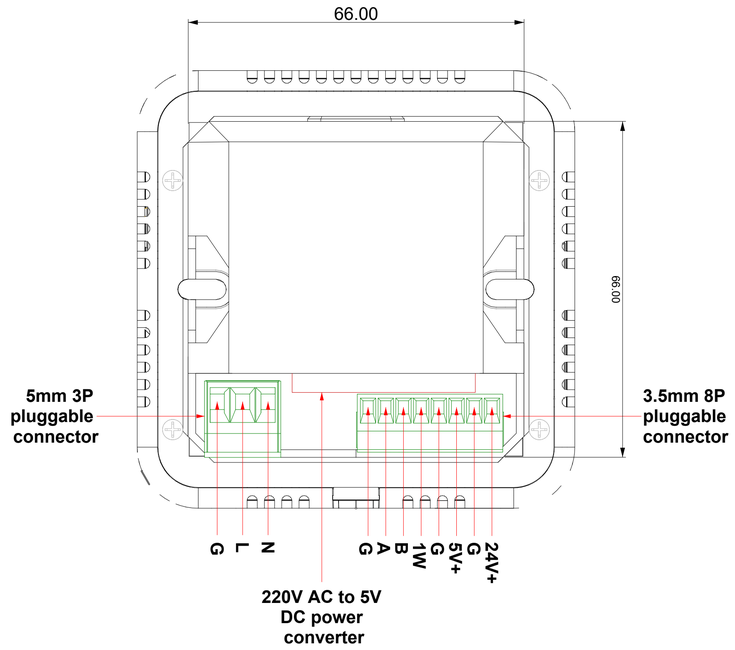




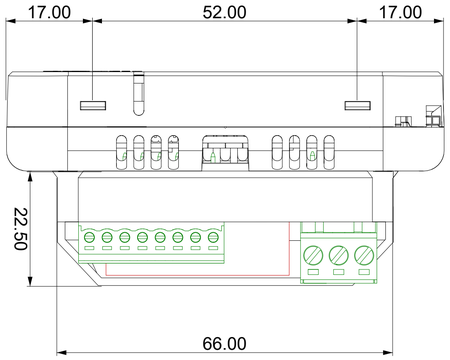
Top



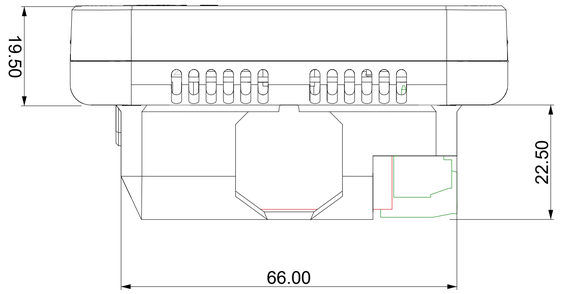
Bottom



Front



Left



Mesh Integrator (MI)

Sensors		Sensor type
Temperature	✓	Digital sensor
Humidity	✓	Digital sensor
Wireless connectivity		**Protocol**
Wifi	✓✓	802.11 b/g/n
Wired IO		**Function**
1-WIRE	✓	integrates external temp sensors
Modbus over RS485	✓✓	Integrates modbus devices
5V DC output	✓✓	Power external devices
24V DC output	✓✓	Power external devices

✓✓ Included ✓ Option

FCC Warnning:

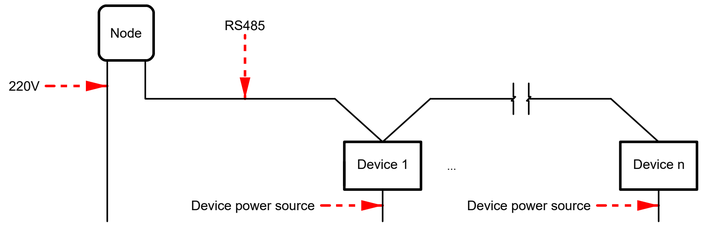
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection againstharmful interference in a residential installation. This equipment generates, uses and can radiateradio frequency energy and, if not installed and used in accordance with the instructions, maycause harmful interference to radio communications. However, there is no guarantee thatinterference will not occur in a particular installation. If this equipment does cause harmfulinterference to radio or television reception, which can be determined by turning the equipmentoff and on, the user is encouraged to try to correct the interference by one or more of thefollowing measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

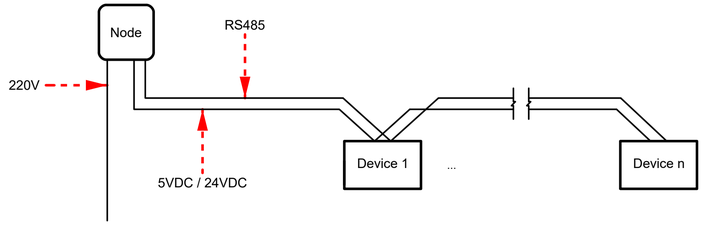
Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1)This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

1 - connect Modbus devices using RS485 cable (see Scenario 1) and RS485 cable + DC power output cable (see Scenario 2)

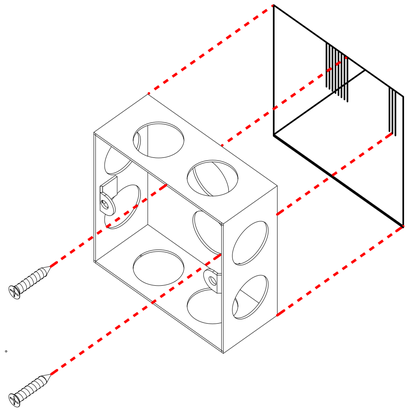
Scenario 1: Devices powered externally



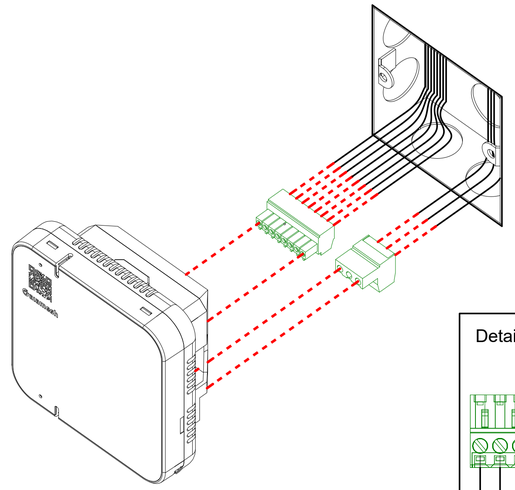
Scenario 2: Devices powered from node



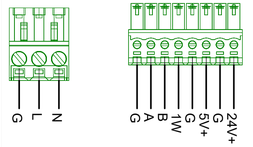
Step 2 - install 86 box inside wall (hidden installation condition, shown) or mounted on wall (exposed installation condition, not shown)



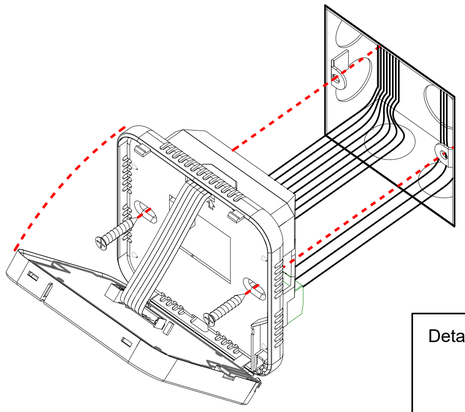
Step 3 - connect power input wires to 3P connector, power output wires (Scenario 2 only) and RS485 wires to 8P connector (see Detail A) and plug connectors into node



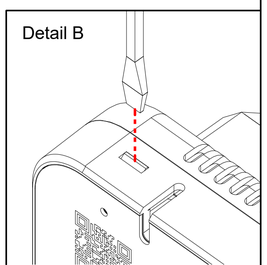
Detail A



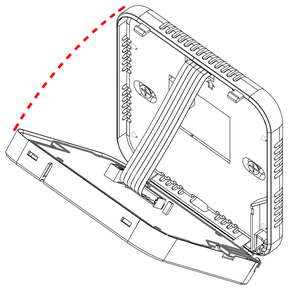
Step 4 - use flathead screwdriver to open node lid (see Detail B), mount node to 86 box using 2 flathead screws



Detail B



Step 5 - close node lid



Step 6 - power on and check LED status and ensure all LEDs are indicating an "OK" status (see Table 1). Contact tech support if needed.

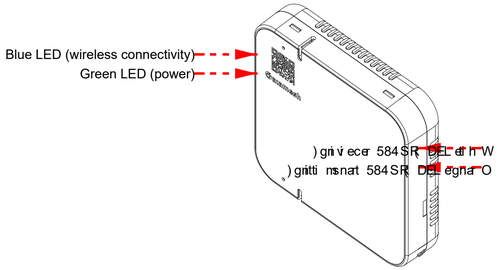


Table 1 - LED Status

	Blue LED	Green LED	Orange LED	White LED
No light		No power - check power supply	No Tx signal See Modbus troubleshooting checklist	No Rx signal See Modbus troubleshooting checklist
Continuously on	Parent / Leaf node no connection Contact tech support	Power OK		
Continuously blinking	Parent / Leaf node connectivity OK			
2 blinks + 3 sec pause	Root node connectivity OK			
3 blinks + 3 sec pause	Root node no connection Contact tech support			
Random blinking			Tx signal OK	Rx signal OK