INWMPFGL001R0xx Installation Guide

The order code may vary depending on the product seller and the buyer's location.

Version: 1.1.1

Owner's record

Find the serial number on the silver label on the rear side of the Intesis device. For sales or technical assistance, we recommend writing it in the space below:

SN:

Safety Information

Follow these instructions carefully. Improper work may seriously harm your health and damage the Intesis gateway and/or any other equipment connected to it.

Only technical personnel, following these instructions and the country legislation for installing electric equipment, can install and manipulate this gateway.

Install this gateway indoors, avoiding exposure to direct solar radiation, water, high relative humidity, or dust.

The gateway must be installed in a secure location, such as a locked electrical cabinet or an area that is physically inaccessible.

The gateway must be connected to networks with monitored access and restricted access to network equipment.

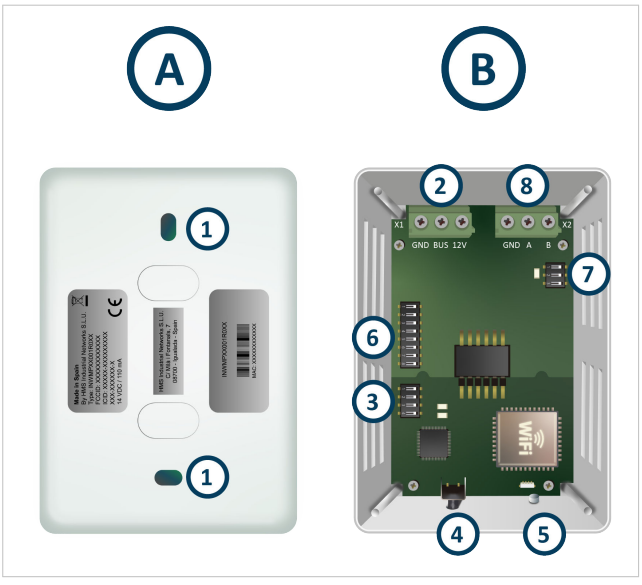
Disconnect any equipment from the power source before manipulating and connecting it to the Intesis device.

Respect the expected polarity of the communication cables when connecting them to the Intesis device.

Keep the communication cables as far away as possible from electrical wires and ground wires. Do not bundle them together.

Keep the communication cable as far away as possible from tubes containing liquids.

Layout



1 Mounting holes

2 RC bus connector

3 DIP switch - four positions

4 Push button

5 LED indicator

6 DIP switch (not used)

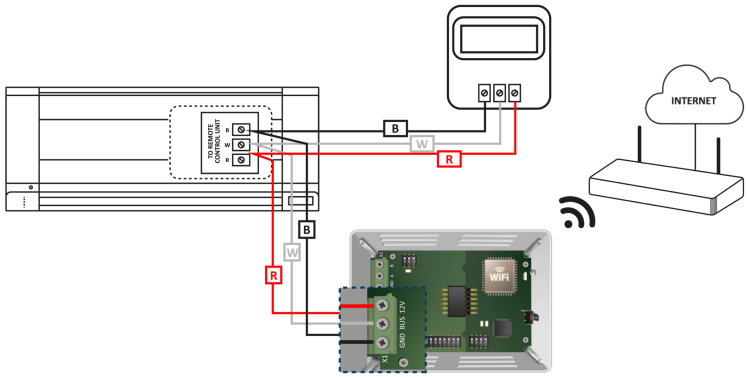
7 DIP switch (not used)

8 Connector (not used)*

*This connector has been removed in later units.

To access the built-in connectors and the DIP switch block, open the enclosure by releasing the rear lid. Use a flat screwdriver (size < 5 mm). This operation must be performed by qualified personnel only.

Wiring Scheme



Connection

1. Open the gateway's enclosure by releasing the rear lid. Use a flat screwdriver (size < 5 mm).
2. The rear lid has two spots where the plastic is thinner. Break one or both spots to allow the connection wires to pass through the lid.
3. Disconnect the AC system from power.
4. Open the frontal cover of the AC indoor unit to locate its printed circuit board (PCB).
5. On the AC unit's PCB, locate the wired remote control bus connector BWR.
6. Connect the AC unit's bus connector BWR to the gateway's RC connector.
7. Reconnect the AC system to power.

Configuration

Power off the gateway and the indoor unit before setting the DIP switches.

Use the DIP switch (four positions) marked as 3 in the layout image to configure the gateway:

Position				Description
1	2	3	4	
ON	-	-	-	Gateway role: Master. A Wired RC is not needed. If it exists, it must be configured as slave.
OFF	-	-	-	Gateway role: Slave. A wired RC must be connected in the bus as master (Default value).
-	ON	-	-	Indoor unit type: RAC inverter, RAC non-inverter, VRF V, VRF S, or VRF J.
-	OFF	-	-	Indoor unit type: RAC inverter model G series, VRF J-II, VRF V-II, or VRF VR-II 10 (Default value).
-	-	ON	-	High-performance mode (Default value).[1]
-	-	OFF	-	Low-performance mode.
-	-	-	ON	Maximum Wi-Fi range (Default value).[2]
-	-	-	OFF	Minimum Wi-Fi range.

[1] Running in high-performance mode means maximum consumption and maximum performance.

[2] Changing the Wi-Fi range may affect the communication between the gateway and the router or access point, resulting in a malfunction.

On rare occasions, the RC port consumption may be exceeded, causing the gateway to reboot. If that happens, decrease the gateway's consumption by using SW3 and SW4.

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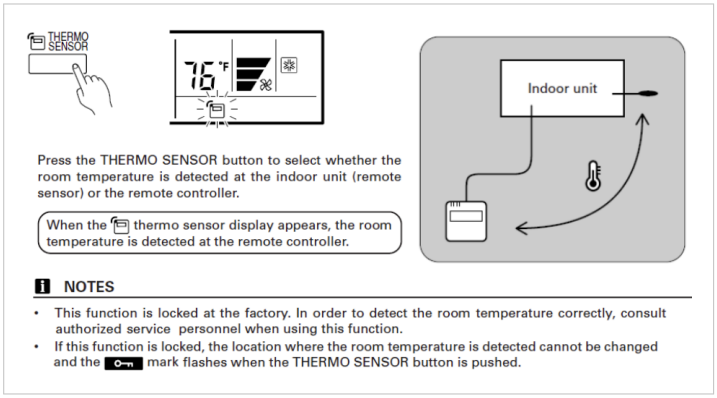
Ambient Temperature

To allow the gateway to report the ambient temperature provided by the Fujitsu AC system, follow these guidelines:

- A wired RC must be present in the system.
- The THERMO SENSOR function must be activated in the Fujitsu system. This function allows the system to switch the ambient temperature source between the indoor unit and the wired RC.
- The Fujitsu system must be configured to read the temperature from the wired RC instead of the indoor unit.

By default, the THERMO SENSOR function is not activated in the Fujitsu system. This factory setting prevents the gateway from accessing the system's ambient temperature. To overcome this situation, you must activate the THERMO SENSOR function and configure the Fujitsu system to read the ambient temperature from the wired RC. Proceed as follows:

1. Connect the gateway to the Fujitsu system as explained in the **Connection** section.
2. Activate Fujitsu's THERMO SENSOR function by following the procedure below, which is extracted from the Fujitsu wired remote controller manual.



The procedure described above may vary depending on the type of wired RC installed. Refer to the service manual for the wired RC for detailed instructions.

Some Fujitsu systems may not have the THERMO SENSOR function implemented. Refer to the Fujitsu service manual for detailed information.

Technical Specifications

Housing	Plastic, ABS Type (UL 94 V-0), 2.5 mm thickness Net dimensions (HxWxD): 100 x 70 x 28 mm / 3.94” x 2.76” x 1.10” Color: White
Weight	98 g / 3.5 oz
Mounting	Wall
Terminal wiring	Wire cross-section/gauge per terminal: • One core: 0.2 .. 2.5 mm2 (24 .. 11 AWG) • Two cores: 0.2 .. 1.5 mm2 (24 ..15 AWG) • Three cores: Not permitted Use solid or stranded wires (twisted or with ferrule)
AC connector	1 x Green pluggable terminal block (3 poles)
Power supply	12 VDC, 85 mA (supplied through the AC unit)
Wi-Fi parameters	Wi-Fi 802.11 (b/g/n) RF band: 2.4 GHz Average output power: 8 dBm Maximum output power: 19.91 dBm (EIRP) Modulated signal at antenna chip: 11 Mb/s
LED indicators	1 x for device status
Operational temperature	0 .. 60°C / 32 .. 140°F
Operational humidity	5 .. 95% HR, non-condensing

Disposal and Recycling

This product contains electronic components and must be properly disposed of according to local laws and regulations. For further information, refer to: https://www.hms-networks.com/sustainability

For further information on the installation, connection, and configuration of this gateway, refer to the User Manual.

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