

# Installation Sheet for INWMPFGL001R0xx

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

Version: 1.1.0

## 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 device 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 Intesis device.

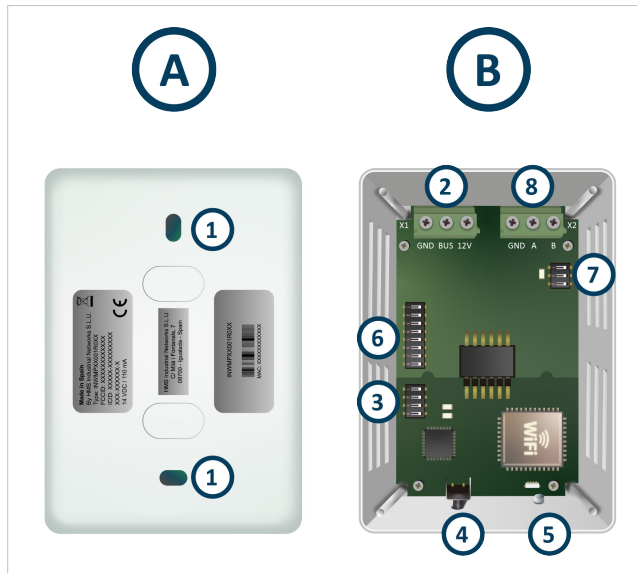
Install this Intesis device indoors, in a restricted access location, avoiding exposure to direct solar radiation, water, high relative humidity, or dust.

All wires for communication and power supply (if needed) must only be connected to networks without routing to the outside plant. All communication ports are considered for indoor use and must only be connected to SELV circuits.

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.

## Layout



A (rear lid)	
①	Screw holes
B (PCB)	
②	AC connector
③	DIP switch - four positions
④	Push button
⑤	LED indicator
⑥	DIP switch - eight positions (not used)
⑦	DIP switch - three positions (not used)
⑧	Connector (not used) <i>This connector has been removed in later units.</i>

## Mounting

Inside the AC unit:



- Mount the Intesis device as far as possible from any tubes containing liquids and from power cables.
- Ensure the Intesis device and the communication cables do not block the free movement of mobile parts.

1. Look for the appropriate place to fix the Intesis device.
2. Pull the rear lid apart from the case. The lid is joined by pressure, so using a small screwdriver or similar may help.
3. Wire the Intesis device before fixing it to a surface. See **Connection** below.
4. Join again the case and the lid by pressing carefully.
5. Use double-sided tape to fix the Intesis device to the inner surface of the indoor unit (recommended).

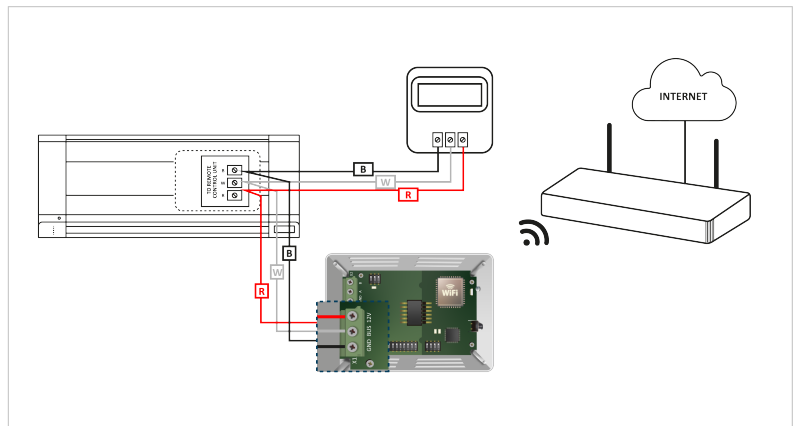
On a wall:

1. Look for the appropriate place to mount the Intesis device.
2. Pull the rear lid apart from the case. The lid is joined by pressure, so using a small screwdriver or similar may help.
3. Wire the Intesis device before fixing it to a surface. See **Connection** below.
4. Fasten the rear lid to the wall through its screw holes (①).
5. Join the case and the lid again by pressing carefully.



- Use the appropriate screws according to the wall material.
- Depending on the surface of the wall, double-sided tape can replace the use of screws.

## Wiring Scheme



## Connection



Pull the rear lid apart from the case to access the AC connector (②). The lid is joined by pressure, so using a small screwdriver or similar may help.

1. Disconnect the AC indoor unit from its power source.
2. Open the AC indoor unit to access the main printed circuit board (PCB).
3. In the PCB, locate the BWR socket connector.
4. Connect the Intesis device's AC connector (②) with the BWR socket of the indoor unit. See the **Wiring Scheme** above.
5. Join the case and the lid again by pressing carefully.
6. Reconnect the AC indoor unit to its power source.

## Configuration

Use the four positions DIP switch (3) to configure the Intesis device:

Binary value b0 .. b3	Position				Description
	1	2	3	4	
1 X X X	↑	X	X	X	Header position for the Intesis device in the BWR bus. A wired remote controller is not needed. If it is present, it must be set as follower.
0 X X X	↓	X	X	X	Follower position for the Intesis device in the BWR bus. A wired remote controller is needed and set as header (Default value).
X 1 X X	X	↑	X	X	Indoor unit type: RAC inverter, RAC non-inverter, VRF V, VRF S, or VRF J
X 0 X X	X	↓	X	X	Indoor unit type: RAC inverter model G series, VRF J-II, VRF V-II, or VRF VR-II 10 (Default value)
X X 1 X	X	X	↑	X	High-performance mode (Default value) <sup>1</sup>
X X 0 X	X	X	↓	X	Low-performance mode
X X X 1	X	X	X	↑	Maximum Wi-Fi range (Default value) <sup>2</sup>
X X X 0	X	X	X	↓	Minimum Wi-Fi range



<sup>1</sup> Running in high-performance mode means maximum consumption and maximum performance.

<sup>2</sup> Changing the Wi-Fi range may affect the communication between the Intesis device and the router or access point, resulting in a malfunction.



In some very specific installations, the indoor unit port consumption may be overpassed, making the device reboot. If that happens, decrease the Intesis device's power consumption using switches three and four to change the performance mode to low and/or the Wi-Fi range to minimum.



After making any changes to the DIP switches, apply a power cycle (disconnect and reconnect the indoor unit from its power source or the Intesis device from the indoor unit) for the new configuration to take effect.

## Ambient Temperature



- Not all Fujitsu AC units implement this feature. Consult your Fujitsu AC unit guide to know if it allows this function.
- A wired remote controller must be present and configured as header in the BWR bus to obtain the ambient temperature.

To obtain the ambient temperature, follow this procedure:

1. Connect the Intesis device to the AC unit and to the wired remote controller. See **Connection** above.
2. Activate the ambient temperature function in the wired remote controller by following the steps explained in the figure below:

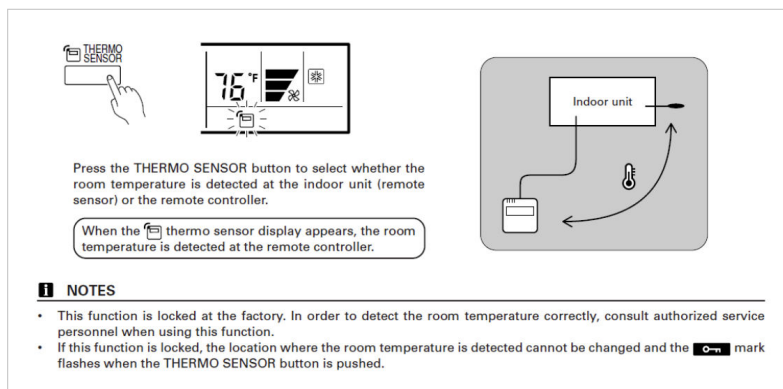


Figure 1. Room temperature sensor selection procedure (extracted from the Fujitsu remote controller manual)

## Technical Specifications

<b>Case</b>	Plastic, type ABS (UL 94 V-0) Thickness: 2.5 mm / 0.1" Net dimensions: 70 x 100 x 28 mm / 2.8 x 3.9 x 1.1" Color: White
<b>Weight</b>	98 g / 3.5 oz
<b>AC Connector</b>	1 x Green pluggable terminal block (3 poles)
<b>Power supply</b>	12 V, 85 mA (supplied through the AC unit)
<b>Radio parameters</b>	Wi-Fi 802.11 (b/g/n) RF Frequency band: 2.4 GHz Output power (average): 8 dBm (Modulated signal at antenna chip; 11 Mb/sec)
<b>Mounting</b>	Inside the AC indoor unit Wall
<b>LED indicators</b>	1 x for device status
<b>Operating temperature</b>	0 .. 40°C / 32 .. 104°F
<b>Stock and operating humidity</b>	<93% HR, non-condensing
<b>RoHS conformity</b>	Compliant with RoHS2 directive (2011/65/CE)
<b>Certifications</b>	CE conformity to EMC directive (2014/53/EU) EN 62368-1:2014 CSA/UL 62368-1:2014 AS/NZS 62368.1:2018 EN 300 328 V2.1.1 EN 303 446-1 V1.2.0 Regulations: FCC/IC Standards: Title 47 CFR Part 15B; ICES-003 (Issue 6)

## 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.intesis.com/weee-regulation>

For further information on the installation, connection, and configuration of this gateway, refer to the [User manual](#).