

**Intesis**[®]
BY HMS NETWORKS**INWMPMIT001I000**

ME-AC-WMP-1

Wi-Fi interface for Mitsubishi Electric Air Conditioners

1. Introduction

Intesis INWMPMIT001I000 (ME-AC-WMP-1) allows a complete and natural integration of Mitsubishi Electric Air Conditioners into IP based control systems. Compatible with Domestic Air Conditioners commercialized by Mitsubishi Electric.

- Quick and easy installation.
- External power not required.
- Direct connection to the smart hub or home's IP based control system.
- Direct connection to the AC indoor unit.
- Total Control and Supervision.
- Real states of the AC unit's internal variables.
- Allows using simultaneously the Mitsubishi Electric remote controllers¹.

¹ INWMPMIT001I000 is connected to the CN-105 connector, so no other controllers can be connected to this same bus.

2. Dimensions

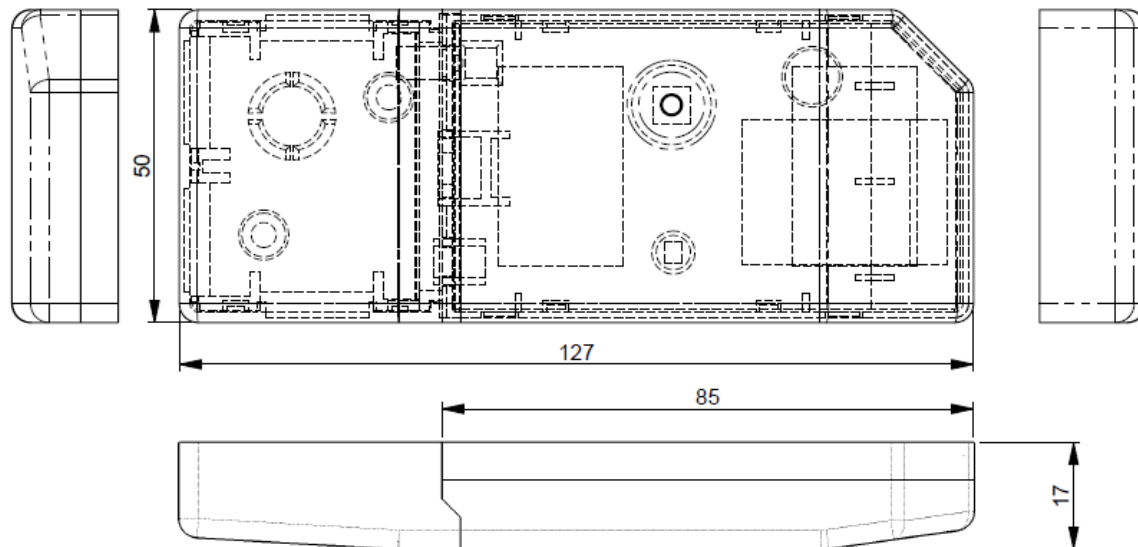


Figure 2.1 Device dimensions in mm and back view

3. Technical Features

Enclosure	ABS (UL 94 V-0). 2,1 mm thickness
Dimensions	127 x 50 x 17 mm
Weight	80g
Colour	White
Power supply	12V, 60mA typical Doesn't require external power supply (supplied by the AC Unit)
Radio Parameters	Wi-Fi 802.11 (b/g/n) RF Frequency band: 2.4 GHz. <i>Consult annex 1 for further information</i> Output power (average): 8 dBm (<i>Modulated signal at antenna chip; 11Mb/Sec.</i>)
Mounting	Wall
LED indicators	1 x Device status
Operating Temperature	From 0°C to 40°C
Operating humidity	<93% HR, no condensation
Stock humidity	<93% HR, no condensation
RoHS conformity	Compliant with RoHS directive (2011/65/EU).

Table 3.1 Technical features

Annex 1

The device can be configured in 3 different RF Modes:

- USA: 2412 – 2462 MHz (11 channels)
- Europe: 2412 – 2472 MHz (13 channels)
- Japan: 2412 – 2484 MHz (14 channels)

The factory settings are set to work in the most restrictive mode, USA: 2412 – 2462 MHz. Therefore, if the user doesn't change any of these parameters, the gateway is compliant with the most restrictive RF regulations, stricter than European's.

Safety instructions

WARNING

Follow carefully this safety and installation instructions. Improper work may lead to serious harmful for your health and also may damage seriously the interface and/or the AC indoor unit.

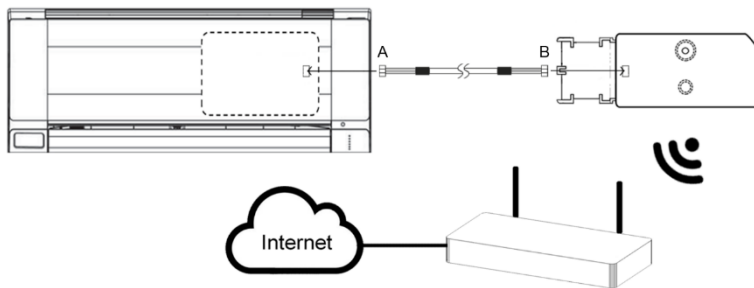
- This interface must be installed by accredited technical personnel (electrician, installer or authorized technical personnel) and following all the safety instructions.
- This interface must only be installed in a restricted access location.
- Before manipulating the AC indoor unit be sure it is completely disconnected from Mains power.
- In case of installation of the interface inside the AC indoor unit, fix the interface and communication cables preferably to any appropriate point of the plastic cover of the unit taking care of no blocking free movement of mobile parts and as far as possible from tubes containing liquids and power cables.

Installation instructions

1. Unplug the Air conditioner (AC) unit from the power supply line.
2. Access to the main Printed Circuit Board. *
3. Locate the socket connector marked as CN105. **
4. Select a location for the Intesis device.
5. Connect the A-end (the long one) of the supplied cable to the Air Conditioner CN105 connector and the B-end (the short one) to the device AC connector.
6. Close the Air Conditioner unit.
7. Plug the AC to the power supply line. If connection with the Air Conditioner has been successful, the Intesis device LED will start blinking Green and then will change to steady Green.

* See Mitsubishi Electric installation or service manual for detailed information.

** In some old units, the CN92 connector is the one to be used, instead of the CN105.



FCC Interference Statement:

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 of this device.

Contains FCC ID: 2AC7Z-ESPWROOM02:

RF Exposure Warning Notice:

- This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules.
- This equipment has very low levels of RF energy that is deemed to comply without maximum permissive exposure evaluation (MPE).
- This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

Caution:

- To assure continued compliance, follow the attached installation instructions. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- This transmitter external antenna must be installed and operated keeping at least 20 cm (7 7/8 inch).

IMPORTANT: Use only the cable attached. Extending or shortening the connecting cable included with the interface may cause it to malfunction. Keep the connecting cable as far away as possible from electrical wires and ground wire. Do not bundle them together.

The User's Manual is available at:

<https://intesis.com/products/ac-interfaces/mitsubishi-electric-gateways/mitsubishi-electric-ascii-wifi-ac-me-ac-wmp-1>

Instrucciones de seguridad

⚠ ATENCIÓN

Siga atentamente estas instrucciones de seguridad e instalación. Un manejo inadecuado puede ocasionar daños graves para su salud y puede ocasionar también daños irreparables en el interfaz y/o en la unidad interna del aire acondicionado.

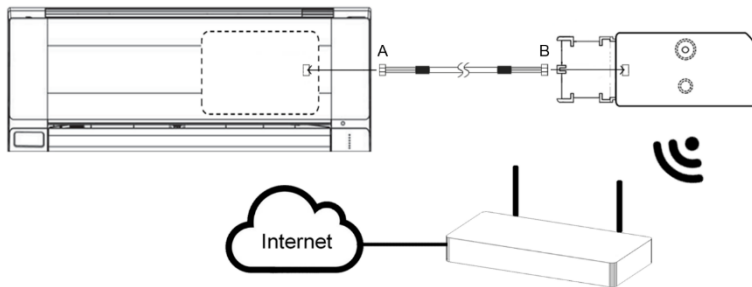
- Esta interfaz debe ser instalada por personal técnico acreditado (electricista, instalador o personal técnico cualificado) y siguiendo todas las instrucciones de seguridad
- Esta interfaz es válida sólo para la instalación en lugares de acceso restringido.
- Antes de manipular en el interior del aire acondicionado, asegúrese de que está completamente desconectado de la red eléctrica.
- En caso de instalación del interfaz en el interior de la unidad interior del aire acondicionado, fije la interfaz y los cables de comunicación preferiblemente a algún punto de la carcasa de plástico de forma que no interfieran al libre movimiento de partes móviles y alejados al máximo de tubos conductores de líquido y cables de potencia.

Instrucciones de instalación

1. Desconecte el sistema de Aire Acondicionado (AC) de la alimentación.
2. Acceda a la Placa Electrónica Principal. *
3. Localice el conector marcado como CN105. **
4. Seleccione una localización para el dispositivo Intesis.
5. Conecte el extremo A del cable suministrado (el extremo largo) al conector CN105 de la unidad de Aire Acondicionado y el extremo B (el extremo corto) en el conector AC de nuestro dispositivo.
6. Cierre la unidad de Aire Acondicionado.
7. Conecte el AC a la alimentación. Si la conexión con el Aire Acondicionado has sido exitosa, el LED del dispositivo Intesis empezará a parpadear en verde y posteriormente cambiará a verde fijo.

* Consulte el manual de instalación o manual de servicio de Mitsubishi Electric para más información.

** En algunas unidades interiores antiguas, se encuentra el conector CN92 en vez del conector CN105.



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- To assure continued compliance, follow the attached installation instructions. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- This transmitter external antenna must be installed and operated keeping at least 20 cm (7 7/8 inch).

IMPORTANTE: Utilice únicamente el cable adjunto. La ampliación o acortamiento del cable de conexión que se incluye con el interfaz puede provocar un funcionamiento incorrecto. Mantenga el cable de conexión lo más alejado posible del cableado eléctrico y del cable de tierra, no los enrolle juntos.

El Manual de Usuario está disponible en:

<https://intesis.com/products/ac-interfaces/mitsubishi-electric-gateways/mitsubishi-electric-ascii-wifi-ac-me-ac-wmp-1>



This marking on the product, accessories, packaging or literature (manual) indicates that the product contains electronic parts and they must be properly disposed of by following the instructions at <https://intesis.com/weee-regulation>