Specifications Document for INWMPMHI001R000

Document version: 1.0.1

Product type: The Intesis INWMPMHI001R000 Wi-Fi gateway enables a comprehensive integration of Mitsubishi Heavy Industries (MHI) air conditioner indoor units (RAC, FD, VRF with an XY bus) into IP-based automation systems.

Manufacturer: HMS Industrial Networks SLU.

Product description: The Intesis INWMPMHI001R000 gateway is connected to the AC indoor unit's XY communication bus. The gateway, together with the corresponding driver for the IP-based hub controller used by the installer, allows not only the control and monitoring of the main AC functions (on/off, mode, set point, room temperature, fan speed, vanes position) by the IP-based automation system, but also the monitoring of errors and alarms.

Main features:

- The gateway communicates with the IP-based hub controller system via Wi-Fi.
- Supports Wi-Fi standard 802.11 b/g/n @ 2.4 GHz.
- Direct connection to the MHI indoor unit's XY communication bus.
- Easy Wi-Fi configuration from a PC and a smartphone via an intuitive web interface.
- Free Intesis configuration tool WMP-CONFIG offers various capabilities, including:
    - Configure the Shift Temperature feature.
    - Upload firmware upgrades.
    - See the incoming and outcoming communication (ASCII traffic).
    - Perform tests during commissioning.
    - Security: generate a PIN code to access the product configuration and encrypt the communication.
- Dynamic or static IP addresses allowed.
- No internet connection for day-to-day operation needed.
- Actual state of the AC unit's internal variables.
- No external power is required; the power is supplied by the AC indoor unit.
- Optional external power supply: If a wired remote controller is in the same XY bus and the communication shuts down due to power requirements, an external power supply (12 VDC, 100 mA) can be connected to the gateway to overcome this situation.
- Simultaneous control of the AC indoor unit is possible through both the AC unit remote controller and the IP-based automation system.
- Integration with IP-based automation systems is achieved with the Intesis WMP open ASCII protocol and a driver. Use one of the drivers available on the Intesis product website or create a driver based on the Intesis WMP specs. The WMP specs are available on the Intesis product website.
- 36 months warranty.

ORDER CODE:

INWMPMHI001R000	Mitsubishi Heavy Industries RAC, FD and VRF systems to Wi-Fi (ASCII) interface - 1 unit

Equipment and accessories included in the shipment: Intesis gateway, Installation Guide.

Standards, guidelines, and certificates:

- Low-voltage directive (2014/35/EC).
- Electrical equipment (safety) regulations EN 62368-1:2014 + A11: 2017 + AC:2017, EN 62311:2008.
- Radio equipment directive (2014/53/EU).
- Compliant with RoHS 2 directive (2011/65/EU).

Technical Specifications:

Housing	ABS (UL 94 V-0). 2,5 mm thickness Net dimensions (dxwxh): Millimeters: 28 x 70 x 100 mm / Inches: 1.02 x 2.75 x 3.94"
Net weight	150 gr / 5.29 oz
Mounting	It can be installed inside the AC indoor unit, on the wall, or over a desktop
Radio Parameters	Wi-Fi standard 802.11 b/g/n Output power average: 8dBm (Modulated signal at antenna chip; 11Mb/sec.) The device can be configured in three different RF Modes: • USA: 2412 – 2462 MHz (11 channels) • Europe: 2412 – 2472 MHz (13 channels) • Japan: 2412 – 2484 MHz (14 channels)
Optional external power supply	12 VDC, 100 mA (not included)
Led indicators	1 for device status
Operating temperature	Celsius: 0 .. 40°C Fahrenheit: 32 .. 104ºF
Operating humidity	<93% HR, no condensation
Stock humidity	<93% HR, no condensation