Specifications Document for the INWMPMHI001I000 Gateway

Document version: 1.0.0

Product type: The Intesis INWMPMHI001I000 Wi-Fi gateway enables a comprehensive integration of Mitsubishi Heavy Industries (MHI) air conditioner indoor units (domestic units with a CNS connector) into IP-based automation systems.

Manufacturer: HMS Industrial Networks SLU.

Product description: The Intesis INWMPMHI001I000 gateway is connected to the AC indoor unit's CNS connector. 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 allowed by the IP-based automation system (on/off, mode, set point, room temperature, fan speed, vanes position) but also the monitoring of errors.

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 CNS connector.
- Easy Wi-Fi configuration from a PC or 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.
- Monitoring of the current ambient temperature, error status and error code.
- Control and monitoring: on/off, mode, set temperature, room temperature, fan speed, and vanes position.
- No external power is required; the power is supplied by the AC indoor unit.
- Simultaneous control of the AC indoor unit 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:

INWMPMHI001I000	Mitsubishi Heavy Industries domestic to Wi-Fi (ASCII) interface - 1 unit

Equipment and accessories included in the shipment: Intesis gateway, Installation Guide, and AC connection cable

Standards, guidelines, and certificates:

- Low-voltage directive (2014/35/EC).
- Electrical equipment (safety) regulations EN 62368-1:2014 + A11: 2017 + AC:2017.
- 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: Millimeters: 127 x 50 x 17 mm / Inches: 5 x 2 x 0.67"
Net weight	80 gr / 2.82 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 3 different RF Modes: • USA: 2412 – 2462 MHz (11 channels) • Europe: 2412 – 2472 MHz (13 channels) • Japan: 2412 – 2484 MHz (14 channels)
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