Prescription Document for INMBSMHI001R000

Product type: The INMBSMHI001R000 is a Modbus RTU (EIA-485) gateway for Mitsubishi Heavy Industries commercial air conditioning systems.

Manufacturer: HMS Industrial Networks SLU.

Product description: Connect this gateway directly to an AC indoor unit to easily control main functions, such as operating mode, fan speed, temperature setpoint…, and to monitor errors, alarms, and some internal variables. The gateway configuration is very easy: just set the DIP switches according to your needs. No configuration software or power supply is required.

Installation: DIN rail, wall, or inside the indoor unit (in some AC models only).

Special features:

- Configuration from both onboard DIP switches and Modbus RTU.
- Quick and easy installation: Set the DIP switches, plug, and play.
- External power not required.
- Simultaneous control of the AC unit by the IR remote controller and by Modbus RTU.
- Reduced dimensions 93 x 53 x 58 mm.
- Mountable on DIN rail, wall, or even inside the indoor unit in some models of AC.
- Significant reduction of the HVAC system energy consumption.
- Total control and monitoring of the AC unit from the Modbus system, including the AC unit's internal variables, running hours counter (for filter maintenance control), and error indication.

Equipment and accessories: Intesis Gateway and installation sheet.

Standards, guidelines, and certificates:

- CE conformity to EMC directive (2014/30/EC) and low-voltage directive (2014/35/EC).
- EN 61000-6-3, EN 61000-6-2, EN 62368-1
- Compliant with RoHS 2 directive (2011/65/EU).

Technical specifications:

Enclosure	Plastic, type PC (UL 94 V-0) Net dimensions (DxWxH): 93 x 53 x 58 mm / 3.7" x 2.1" x 2.3" Color: Light Grey. RAL 7035	**Operation Temperature**	0ºC to 60ºC
Weight	85 g	**Stock Temperature**	-20ºC to +85ºC
Mounting	Wall / DIN rail (EN 60715 TH35)	**Operation Humidity**	< 95 % RH, non-condensing
Terminal Wiring (for low-voltage signals)	Per terminal: solid or stranded wires (twisted or shielded) 1core: 0.5 .. 2.5 mm^2 2 cores: 0.5 .. 1.5 mm^2 3 cores: not permitted	**Stock Humidity**	< 95 % RH, non-condensing
Modbus RTU port	1 x Serial EIA-485 plug-in screw terminal block (2 poles) Compatible with Modbus RTU EIA-485 networks	**Isolation voltage**	1500 Vdc
AC unit port	1 x XY bus plug-in screw terminal block	**Isolation resistance**	1000 MΩ
Switch 1 (SW1)	1 x DIP switch for AC settings	**Ingress Protection**	IP 20 (IEC60529)
Switch 3 (SW3)	1 x DIP switch for Modbus RTU settings	**LED indicators**	2 x onboard LEDsfor operational status
Switch 4 (SW4)	1 x DIP switch for extra functions		