Prescription Document for IN485MHI001R000

Product type: The IN485MHI001R000 is a BACnet MS/TP gateway compatible with Mitsubishi Heavy Industries Sky and VRV air conditioning systems.

Manufacturer: HMS Industrial Networks SLU.

Product description: Connect this gateway directly to an AC indoor unit to 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).

Main features:

- BTL seal ensures full interoperability with BACnet devices.
- Supports BACnet MS/TP.
- Configuration with onboard DIP switches.
- Quick and easy installation: Set the DIP switches, plug, and play.
- External power supply not required.
- Simultaneous control of the AC unit by the IR remote controller and by BACnet MS/TP.
- 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 BACnet system, including the AC unit's internal variables, running hours counter (for filter maintenance control), and error indication, among many other functions.
- Three-year warranty.

Equipment and accessories: Intesis gateway and installation sheet.

Standards, guidelines, and certificates:

- BACnet certificate.
- 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
Weight	85 g (3 oz)
Terminal wiring for low-voltage signals	Per terminal: solid wires or stranded wires (twisted or with ferrule)
	1 core: 0.5 to 2.5 mm^2 (24 to 11 AWG)
	2 cores: 0.5 to 1.5mm^2 (24 to 15 AWG)
	3 cores: not permitted
Mounting	DIN rail, wall, or even inside the indoor unit in some models of AC.
BACnet MS/TP port	1 x EIA-485 pluggable terminal block (3 poles: B, A, and SG) with 120 Ω resistor termination and polarisation configurable by DIP switch
AC unit port	1 x RC bus pluggable terminal block (2 poles: A, B)
LED indicators	2 x Communication status
DIP switches	SW1: Gateway and baudrate configuration
	SW2: MAC address and temperature unit
	SW3: Bus polarization and termination
Operational and storage temperature	Celsius: Op: 0 to +70°C; St: -20 to 85°C
	Fahrenheit: 32 to 158ºF; St: -4 to 185ºF
Operational and storage humidity	5% to 95%, non-condensing
Isolation Voltage	1500 VDC
Isolation resistance	1000 MΩ