

Specifications Document for INKNXMHI001R000

Product type: The INKNXMHI001R000 is a KNX gateway with binary inputs compatible with Mitsubishi Heavy Industries FD and VRF 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 is very easy to configure using the ETS configuration tool and the ETS Database available to download from the Intesis website.

Installation: Inside the AC unit.

Main features:

- Configuration using the KNX standard configuration tool ETS.
- Reduced dimensions: 71 x 71 x 27 mm.
- Compatible with all KNX thermostats in the market.
- Significant reduction of the HVAC system energy consumption.
- Smooth integration of KNX thermostats allowing the control of the AC unit by the temperature sensor of the thermostat itself.
- Simultaneous control of the AC unit by the IR remote controller and by KNX.
- 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.
- Up to five scenes can be saved and executed from KNX.
- Four binary inputs to integrate external devices, such as window contacts or presence detectors.
- External power not required.
- Three-year warranty.

Equipment and accessories: Intesis gateway and installation sheet.

Standards, guidelines, and certificates:

- KNX certificate.
- CE conformity to EMC directive (2014/30/EC) and Low-voltage directive (2014/35/EC).
- EN 61000-6-3, EN 61000-6-1, EN 60950-1, EN 60335-2, EN 60335-1, EN 62233, EN 50491-3, EN 50491-2.
- Compliant with RoHS 2 directive (2011/65/EU).

Technical specifications:

Enclosure	Plastic, type ABS (UL 94 V-0). 2.5 mm thickness
Dimensions	71 x 71 x 27 mm
Weight	70 g
Color	White, RAL 9010
Power supply	29 VDC, 7 mA Supplied through the KNX bus
X/Y Bus	Voltage: 13-18 V Current: 80 mA
LED indicators	1 x KNX programming
Push buttons	1 x KNX programming
Binary inputs	4 x Potential-free binary inputs Signal cable length: 5 m (unshielded) / 20 m (twisted) Compliant with the following standards: IEC61000-4-2 : level 4 - 15 kV (air discharge) - 8 kV (contact discharge) MIL STD 883E-Method 3015-7 : class3B
Configuration	Configuration with ETS
Operating temperature	-25°C to 60°C
Storage temperature	-40°C to 85°C
Isolation voltage	2500 V
Isolation resistance	1000 MΩ