

Installation Guide for the IN712MEB***0000 Gateway

Version 1.0.0

Owner's record

Find the serial number on the silver label on the right side of the gateway. For sales or technical assistance, we recommend writing it in the space below:

SN:

Safety Information



Follow these instructions carefully. Improper work may seriously harm your health and damage the gateway and/or any other equipment connected to it.

MANDATORY GROUND CONNECTION

YOU MUST connect the gateway to the installation ground terminal. Always use the gateway's dedicated connector

NEVER use the positive or negative gateway's connectors to establish this connection. Not following this indication can cause ground loops and damage the gateway and/or any other equipment connected to it.

If the power supply includes a ground connection, that terminal must be connected to ground.

Only technical personnel, following these instructions and the country legislation for installing electric equipment, can install and manipulate this gateway.

Install this gateway indoors, in a restricted access location, avoiding exposure to direct solar radiation, water, high relative humidity, or dust.

All wires for communication and power supply (if needed) must only be connected to networks without routing to the outside plant. All communication ports are considered for indoor use and must only be connected to SELV circuits.

Mount the gateway, preferably, on a DIN rail inside a grounded metal cabinet following the instructions below.

In the case of wall mounting, firmly fix the gateway on a non-vibrating surface following the instructions below.

Disconnect power wires before manipulating and connecting them to the gateway.

Use SELV-rated NEC class 2 or limited power source (LPS) power supply.

Use a circuit breaker before the power supply. Rating 250 V, 6 A.

Supply the correct voltage to power the gateway. See the Technical Specifications table at the end of this document.

Respect the expected polarity of power (if needed) and communication cables when connecting them to the gateway.

This gateway is designed for installation inside an enclosure. When working inside an enclosure (ex. to make adjustments, set switches, etc.), observe the common antistatic precautions before manipulating the gateway.

Take precautions when installing it outside an enclosure, in environments with static levels above 4 kV, to avoid electrostatic discharges.

These safety instructions in other languages can be found [here](#).

Configuration

Use the Intesis MAPS configuration tool to configure the gateway.

- See instructions on how to download and install the latest version at: <https://www.hms-networks.com/software-and-tools/intesis-maps>.
- Refer to the Configuration Guide for a detailed description of the configuration process.

Mounting

Mount the gateway over a wall or over a DIN rail.



Before mounting, please ensure that the chosen installation place preserves the gateway from direct solar radiation, water, high relative humidity, or dust.



Leave enough clear space to wire the gateway easily and for the subsequent manipulation of elements such as connectors, DIP switches, etc.



Do not mount the gateway in air-handling units or conducts.



DIN rail mounting inside a grounded metallic cabinet is recommended.

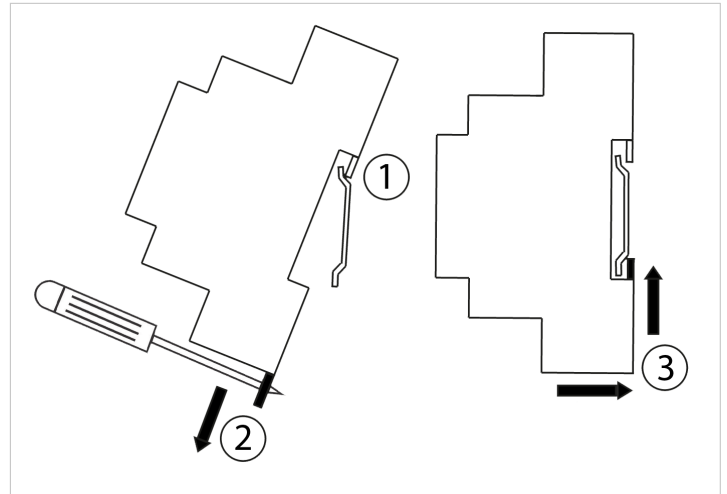
DIN rail mounting

Leave the clips in their original position.

- Fit the gateway's top-side clip in the upper edge of the DIN rail.
- Press the low side of the gateway gently to lock it in the DIN rail.
- Make sure the gateway is firmly fixed.



For some DIN rails, to complete step 2, you may need a small screwdriver or similar to pull the bottom clip down.



Wall mounting



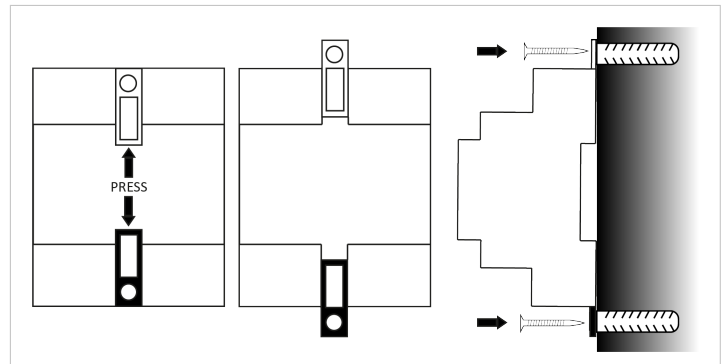
For reasons of security, the maximum height for wall mounting is two meters (6.5 feet).

- Press the rear panel clips outwards until you hear a *click*.
- Use the clip holes to screw the gateway to the wall.



Use M3 screws, 25 mm (1") length.

- Make sure the gateway is firmly fixed.



Wiring

- ⚠ **BEFORE WIRING THE GATEWAY**
- Read the **Safety Information**.
 - Disconnect all installation equipment from power.

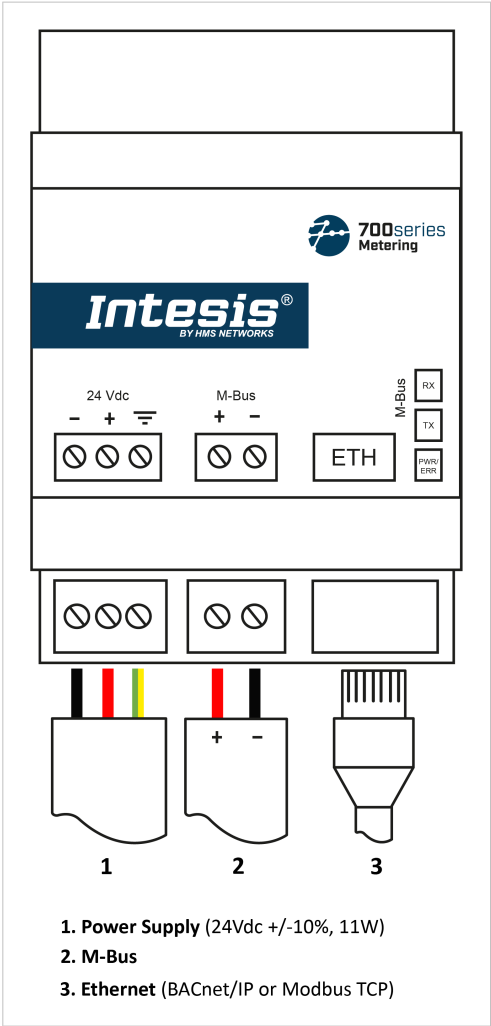


Figure 1. Wiring diagram (wire colors are indicative only)

Wiring procedure

1. Connect a SELV-rated NEC class 2 or limited power source (LPS) power supply to the Intesis gateway.
 - This power supply must not be shared with other devices.
 - Apply the correct voltage and power. Recommended: 24 VDC +/-10% (see the Technical Specifications table at the end of this document).
 - Connect the gateway's ground terminal to the installation grounding.
 - Use a circuit breaker before the power supply. Rating: 250 V, 6 A.
2. Connect the BACnet/IP or Modbus TCP bus to the Ethernet port of the gateway.
 - Use an Ethernet CAT5 or higher cable.
 - In using the building LAN, contact the network administrator and make sure traffic is allowed.
 - When starting up the gateway for the first time, DHCP will be enabled for 30 seconds. After that time, the default IP 192.168.100.246 will be set.
3. Connect the M-Bus installation bus to the M-Bus port of the gateway.

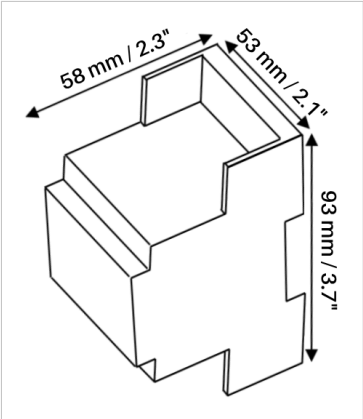
⚠ Observe polarity.

🔌 The gateway provides 36 VDC voltage to the M-Bus bus.

⚠ Keep communication cables away from power and ground wires.

Dimensions

- ⚠ Leave enough clear space to wire the gateway easily and for the subsequent manipulation of elements, such as connectors, DIP switches, etc.



Technical Specifications

Housing	Plastic, type PC (UL 94 V-0)
	Net dimensions (HxWxD): 93 x 53 x 58 mm / 3.7 x 2.1 x 2.3"
	Color: Light grey. RAL 7035
Net weight	101 g (3.6 oz)
Terminal wiring	Per terminal: solid wires or stranded wires (twisted or with ferrule). Wire cross-section/gauge:
	One core: 0.2 to 2.5 mm ² (24 .. 11 AWG)
	Two cores: 0.2 to 1.5 mm ² (24 .. 15 AWG)
	Three cores: Not permitted
Power supply	1 x Green pluggable terminal block (3 poles)
	24 VDC (±10%), 11 W
	Use SELV-rated NEC class 2 or limited power source (LPS) power supply
Mounting	Wall or DIN rail
Ethernet port	1 x Ethernet 10/100 Mbps RJ45
	2 x Ethernet LED: port link and activity
M-Bus port	1 x Green pluggable terminal block (2 poles)
	M-Bus properties:
	• Up to 50 M-Bus loads (75 mA)
	• Collision detection at 25 mA and 50 mA
Push button	Voltage rating: 36 VDC
	1 x Push button
	• Factory reset
LED indicators	• I-Am message (for BACnet only)
	1 x Power/Error
	1 x M-Bus Tx
Operational temperature	1 x M-Bus Rx
	Celsius: -10 to +60°C
Storage temperature	Fahrenheit: 14 to 140°F
	Celsius: -30 to +60°C
Operational and storage humidity	Fahrenheit: -22 to +140°F
	5% to 95%, non-condensing
Isolation voltage between communication ports	1000 VDC
Protection	IP20 (IEC60529)

Disposal and Recycling



This product contains electronic components and must be properly disposed of according to local laws and regulations. For further information, refer to: <https://www.hms-networks.com/sustainability>

For further information on the installation, connection, and configuration of this gateway, refer to the [User Manual](#).