

IN700485*0000**

Protocol Translator with Serial and IP support

Order Code: IN700485***0000

** stands for the Intesis gateway capacity and varies depending on the specific gateway acquired

Installation Sheet rev.1.1

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SAFETY INSTRUCTIONS



WARNING

Follow carefully this safety and installation instructions. Improper work may lead to serious harmful for your health and also may damage seriously the Intesis gateway and/or any other equipment connected to it.

The Intesis gateway must be installed by accredited electrician or similar technical personnel, following all the safety instructions given here and in accordance always with the country legislation for installation of electric equipment.

The Intesis gateway cannot be installed outdoors or exposed to direct solar radiation, water, high relative humidity or dust.

The Intesis gateway must only be installed in a restricted access location.

In case of wall mount, fix firmly the Intesis device on a not vibrating surface following the instructions next.

In case of DIN rail mount fix the Intesis device properly to the DIN rail following the instructions below.

Mounting on DIN rail inside a metallic cabinet properly connected to earth is recommended.

Disconnect always power of any wires before manipulating and connecting them to the Intesis gateway.

A power supply with an NEC Class 2 or Limited Power Source (LPS) and SELV rated is to be used.

Respect always the expected polarity of power and communication cables when connecting them to the Intesis gateway.

Supply always a correct voltage to power the Intesis gateway, see details of voltage range admitted by the device in the technical characteristics below.

CAUTION: Risk of Explosion if Battery is replaced by an Incorrect Type. Dispose of Used Batteries according to the instructions. Battery replacement shall be done by an authorized installer.

CAUTION: The device is to be connected only to networks without routing to the outside plant, all communication ports are considered for indoor only and can be connected SELV circuits only.

This device was designed for installation in an enclosure. To avoid electrostatic discharge to the unit in environments with static levels above 4 kV, precautions should be taken when the device is mounted outside an enclosure. When working in an enclosure (ex. making adjustments, setting switches etc.) typical anti-static precautions should be observed before touching the unit.

Safety instructions in other languages can be found at:

<https://intesis.com/docs/manuals/v6-safety>

CONFIGURATION

Use the **Configuration Tool** to configure the gateway.

See instructions to download and install the latest version at:

<https://intesis.com/docs/software/intesis-maps-installer>

Use the Ethernet connection or the Console Port (mini USB type B connector included) for communication between the gateway and the configuration tool. See CONNECTIONS below and follow instructions of user's manual for more details.

Owner's Record

The serial number is located at the rear of the gateway. Record this information in the space provided below. Refer to it whenever you contact upon your gateway dealer or support team regarding this product.

Serial No. _____

INSTALLATION

Follow instructions next to properly install the gateway.

Disconnect from mains the power supply before connecting it to the Intesis gateway.

Disconnect power of any bus or communication cable before connecting it to the Intesis device.

Mount the Intesis gateway on the wall or DIN rail following the instruction given below, respecting the safety instructions given above.

Connect a NEC Class 2 or Limited Power Source (LPS) and SELV rated power supply to the Intesis gateway, respect the polarity if DC power or Line and Neutral if AC power. Apply always a voltage within the range admitted by the Intesis device and of enough power (see technical characteristics).

Circuit-breaker must be used before the power supply. Rating 250V-6A.

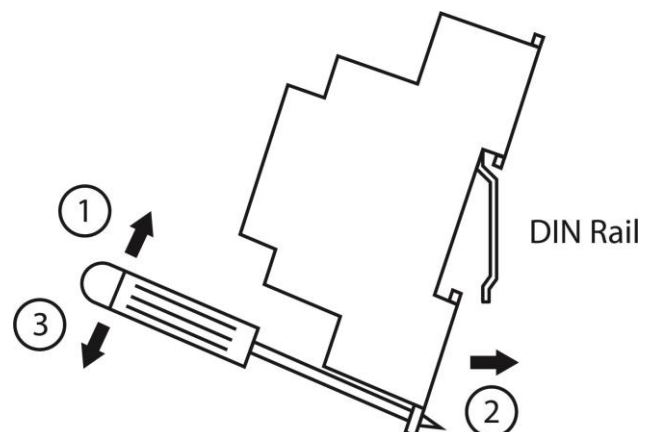
Connect the communication cables to the Intesis gateway, see details on the user's manual.

Power the Intesis device and the rest of devices connected to it.

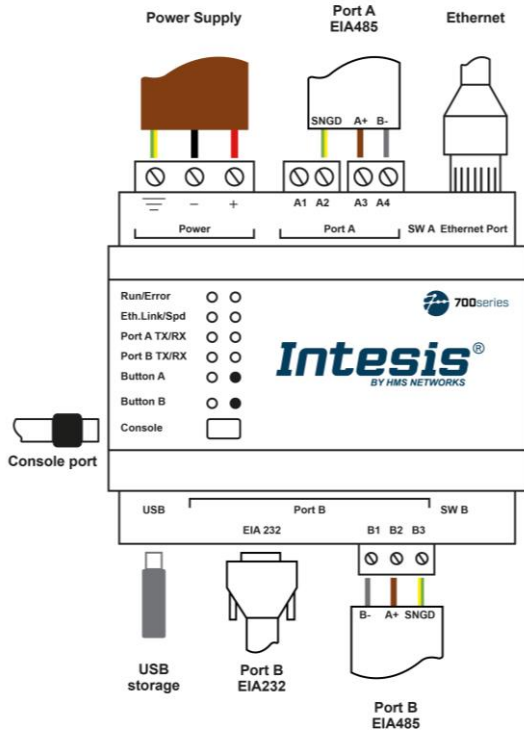
NOTE: The device cannot be installed in air-handling space.

DIN Rail Mount

With the clips of the box in their original position, insert first the box in the upper edge of the DIN rail and later insert the box in the down part of the rail, using a small screwdriver and following the steps in the figure below.



CONNECTIONS



Power Supply

Must use NEC Class 2 or Limited Power Source (LPS) and SELV rated power supply.

If using DC power supply:

Respect polarity applied of terminals (+) and (-). Be sure the voltage applied is within the range admitted.

If using AC power supply:

Make sure the voltage applied is of the value admitted (24 Vac). Do not connect any of the terminals of the AC power supply to earth, and make sure the same power supply is not supplying any other device.

Ethernet / BACnet IP (UDP) / Console (UDP & TCP)

Use an Ethernet CAT5 cable. Contact the network administrator to ensure traffic is allow on the respective LAN. OOB After power up the IP would be DHCP for 30 seconds, if no IP is assigned then then it would be set to 192.168.100.246

Configuration	Port A EIA485	Port B EIA485	Port B EIA232	Ethernet
IN-BAC-MBM	Modbus RTU	BACnet MSTP/ Modbus RTU*	NA	Modbus TCP/ BACnet IP & Console
IN-MBS-BAC	BACnet MSTP	Modbus RTU	Modbus RTU	Modbus TCP/ BACnet IP & Console
IN-ASCII-BAC	BACnet MSTP	ASCII	ASCII	BACnet IP/ASCII TCP & Console

Pin Out	Port A EIA485	Port B EIA485	Scan here for configuration details
B-	A4	B1	
A+	A3	B2	
SGND	A1&A2	B3	

Note for PortA and PortB; standard EIA485 bus: maximum distance of 1200 meters, maximum 32 devices connected, and in each end of the bus a 120 Ω resistor. Bus biasing and termination resistor for EIA485 can be enabled for PortA and PortB in the DIP switch – see table below.

Console Port

Connect a mini-type B USB cable from your computer to the gateway to allow communication between the Configuration Software and the gateway. Remember that Ethernet connection is also allowed. Check the user manual for more information.

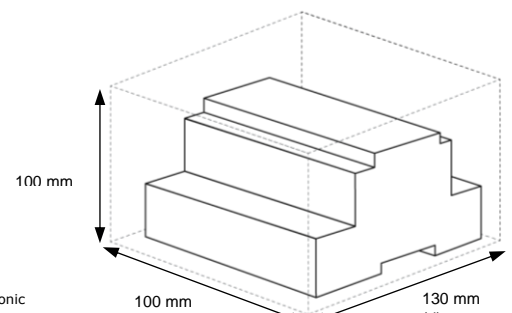
USB

Connect a USB storage device (not a HDD) if required. Check the user manual for more information.

ELECTRICAL & MECHANICAL FEATURES

Enclosure	Plastic, type PC (UL 94 V-0) Net dimensions (d _x w _x h): 90x88x56 mm Recommended space for installation (d _x w _x h): 130x100x100mm Color: Light Grey. RAL 7035
Mounting	Wall. DIN rail EN60715 TH35.
Terminal Wiring (for power supply and low-voltage signals)	Per terminal: solid wires or stranded wires (twisted or with ferrule) 1 core: 0.5mm ² ... 2.5mm ² 2 cores: 0.5mm ² ... 1.5mm ² 3 cores: not permitted If cables are more than 3.05 meters long, Class 2 cable is required.
Power	1 x Plug-in screw terminal block (3 poles) 9 to 36VDC, 2.4W 24VAC +/-10% 50-60Hz, 2.4W Recommended: 24VDC
Ethernet	1 x Ethernet 10/100 Mbps RJ45 2 x Ethernet LED: port link and activity
Port A	1 x Serial EIA485 Plug-in screw terminal block (2 poles) A, B 1 x Plug-in screw terminal block green (2 poles) SGND (Reference ground or shield) 1500VDC isolation from others ports
Switch A & B (SWA & SWB)	1 x DIP-Switch for serial EIA485 configuration: Position 1: ON: 120 Ω termination active Off: 120 Ω termination inactive Position 2-3: ON: Polarization active Off: Polarization inactive
PORT B	1 x Serial EIA232 (SUB-D9 male connector) Reserved for future use 1 x Serial EIA485 Plug-in screw terminal block (3 poles) A, B, SGND (Reference ground or shield) 1500VDC isolation from other ports (except PORT B: EIA232)

Battery	Size: Coin 20mm x 3.2mm Capacity: 3V / 225mAh Type: Manganese Dioxide Lithium
Console Port	Mini Type-B USB 2.0 compliant 1500VDC isolation
USB port	Type-A USB 2.0 compliant Only for USB flash storage device (USB pen drive) Power consumption limited to 150mA (HDD connection not allowed)
Push Button	Button A: Check the user manual Button B: Check the user manual
Operation Temperature	0°C to +60°C
Operational Humidity	5 to 95%, no condensation
Protection	IP20 (IEC60529)
LED Indicators	10 x Onboard LED indicators 2 x Run (Power)/Error 2 x Ethernet Link/Speed 2 x Port A TX/RX 2 x Port B TX/RX 1 x Button A indicator 1 x Button B indicator



This marking on the product, accessories, packaging or literature (manual) indicates that the product contains electronic parts and they must be properly disposed of by following the instructions at <https://intesis.com/weee-regulation>

Rev.1.1

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