

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

Product Datasheet

HMS Industrial Networks S.L.U ©



The 700 Series offers you the high quality of the standard Intesis® gateways but with much more flexibility: you can select different applications for the same hardware device.

Thanks to Intesis MAPS, our configuration tool, the configuration process is as fast and easy as always: launch Intesis MAPS, select the template you need, connect the PC to the gateway, send your configuration, and you are ready to go.

Order Codes

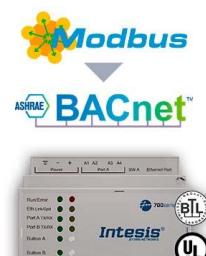
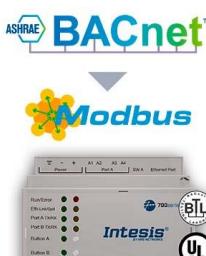
ORDER CODE	LEGACY ORDER CODE		
IN7004851000000	INMBSBAC1000000	INBACMBM1000000	-
IN7004852500000	INMBSBAC2500000	INBACMBM2500000	-
IN7004856000000	INMBSBAC6000000	INBACMBM6000000	INASCBAC6000000
IN7004851K20000	INMBSBAC1K20000	INBACMBM1K20000	-
IN7004853K00000	INMBSBAC3K00000	INBACMBM3K00000	INASCBAC3K00000

PRODUCT NAME	ORDER CODE	DESCRIPTION	INTEISIS MAPS TEMPLATE	APPLICATION
IN700-485	IN700485xxx*0000	Intesis Protocol Translator with Serial and IP Support	IN-BAC-MBM	Modbus client to BACnet server
			IN-MBS-BAC	BACnet client to Modbus server
			IN-ASCII-BAC	BACnet client to ASCII server

*xxx defines the Intesis gateway capacity.

Available Applications

You can configure this gateway to allow communication between these protocols:



- ASCII IP & Serial Server to BACnet IP & MS/TP Client
- Modbus TCP & RTU Server to BACnet IP & MS/TP Client
- BACnet® IP & MS/TP Server to Modbus® TCP & RTU Client

Think of these three applications as three different protocol translator gateways.

Included Components

Intesis Gateway.

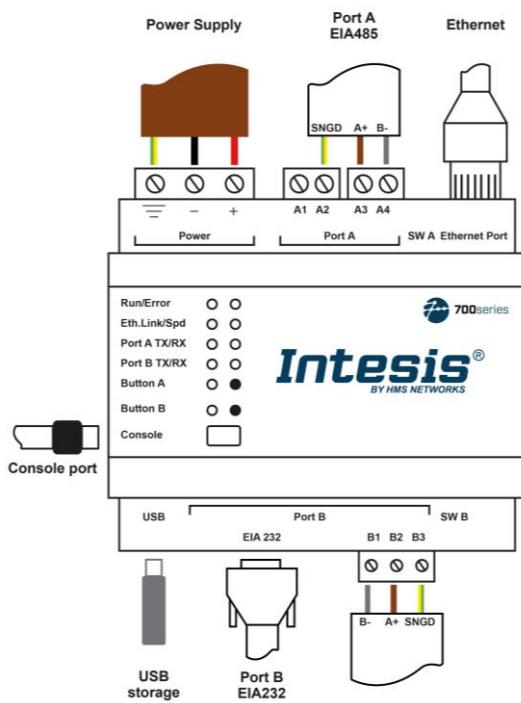
Installation Manual.

USB Configuration cable.

(Power supply not included).

Warranty: 36 months.

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 TCP/BACnet IP & Console	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		
SNGD	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 and Mechanical Features

Enclosure	Plastic, type PC (UL 94 V-0) Net dimensions (dxwxh): 90x88x56 mm Recommended space for installation (dxwxh): 130x100x100 mm Color: Light Grey. RAL 7035	Battery	Size: Coin 20 mm x 3.2 mm Capacity: 3 V / 225 mAh Type: Manganese Dioxide Lithium
Mounting	Wall DIN rail EN60715 TH35	Console Port	Mini Type-B USB 2.0 compliant 1500 Vdc isolation
Terminal Wiring (for power supply and low-voltage signals)	Per terminal: solid wires or stranded wires (twisted or with ferrule) 1 core: 0.5 .. 2.5 mm ² 2 cores: 0.5 .. 1.5 mm ² 3 cores: not permitted If cables are more than 3.05 meters long, Class 2 cable is required.	USB port	Type-A USB 2.0 compliant Only for USB flash storage device (USB pen drive) Power consumption limited to 150 mA (HDD connection not allowed)
Power	1 x Plug-in screw terminal block (3 poles) 9 to 36 Vdc, 2.4W 24 Vac +/-10 %, 50-60Hz, 2.4W Recommended: 24Vdc	Push Button	Button A: Check the user manual Button B: Check the user manual
Ethernet	1 x Ethernet 10/100 Mbps RJ45 2 x Ethernet LED: port link and activity	Operation Temperature	0°C to +60°C
Port A	1 x Serial EIA-485 Plug-in screw terminal block (2 poles) A, B 1 x Plug-in screw terminal block green (2 poles) SGND (Reference ground or shield) 1500 Vdc isolation from others ports	Operational Humidity	5 to 95 %, no condensation
Switch A & B (SW A & SW B)	1 x DIP-Switch for serial EIA485 configuration: Switch 1: ON: 120 Ω termination active Off: 120 Ω termination inactive Switches 2-3: ON: Polarization active Off: Polarization inactive	Protection	IP20 (IEC60529)
PORT B	1 x Serial EIA-232 (SUB-D9 male connector) Reserved for future use 1 x Serial EIA-485 Plug-in screw terminal block (3 poles) A, B, SGND (Reference ground or shield) 1500 Vdc isolation from other ports (except PORT B: EIA-232)	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>

