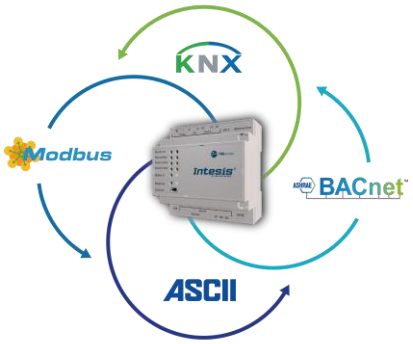
IN701KNX***0000

Protocol Translator with KNX, Serial and IP support

Order Code: IN701KNX***0000

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



Product Datasheet

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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

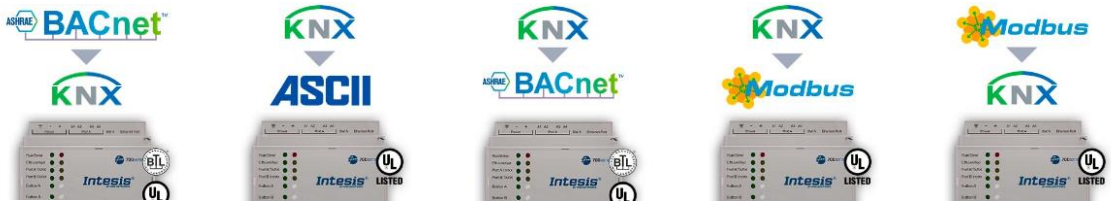
ORDER CODE	LEGACY ORDER CODE				
IN701KNX1000000	INMBSKNX1000000	INKNXMBM1000000	INBACKNX1000000	INKNXBAC1000000	-
IN701KNX2500000	INMBSKNX2500000	INKNXMBM2500000	INBACKNX2500000	INKNXBAC2500000	-
IN701KNX6000000	INMBSKNX6000000	INKNXMBM6000000	INBACKNX6000000	INKNXBAC6000000	INASCKNX6000000
IN701KNX1K20000	INMBSKNX1K20000	INKNXMBM1K20000	INBACKNX1K20000	INKNXBAC1K20000	-
IN701KNX3K00000	INMBSKNX3K00000	INKNXMBM3K00000	INBACKNX3K00000	INKNXBAC3K00000	INASCKNX3K00000

PRODUCT NAME	ORDER CODE	DESCRIPTION	INTESIS MAPS TEMPLATE	APPLICATION
IN701-KNX	IN701KNXxxx*0000	Intesis Protocol Translator with KNX, Serial, and IP Support	IN-MBS-KNX	KNX to Modbus server
			IN-KNX-MBM	Modbus client to KNX
			IN-BAC-KNX	KNX to BACnet server
			IN-KNX-BAC	BACnet client to KNX
			IN-ASCII-KNX	KNX to ASCII server

**xxx defines the Intesis gateway capacity.*

Available Applications

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



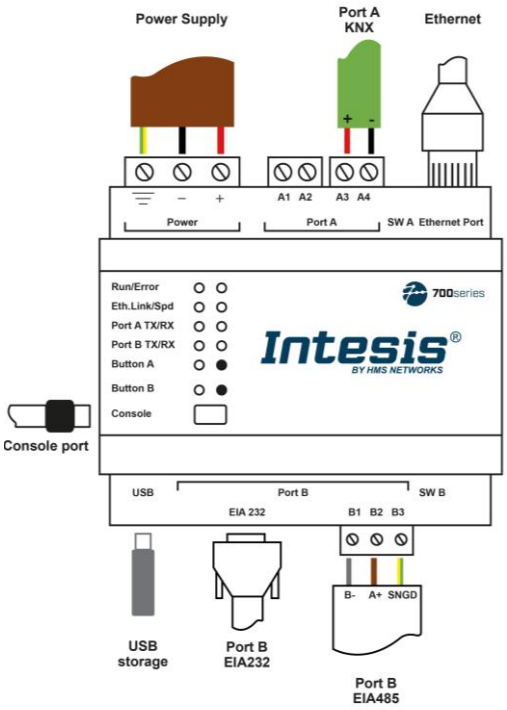
- BACnet IP & MS/TP Client to KNX TP
- KNX TP to ASCII IP & Serial Server
- KNX TP to BACnet® IP & MS/TP Server
- KNX® TP to Modbus® TCP & RTU Server
- Modbus TCP & RTU Client to KNX TP

Think of these five applications as five 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 it would be set to 192.168.100.246.

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

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

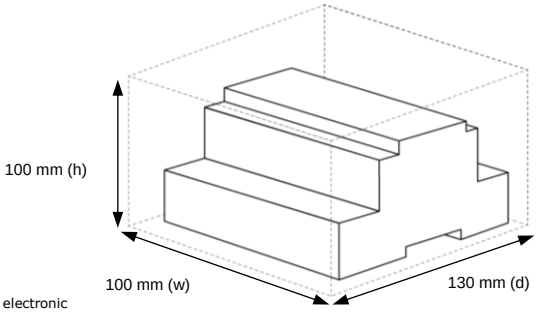
Console Port
Connect a mini-type B USB cable from your computer to the gateway to allow communication between the Configuration Software and the gateway. Remember that Ethernet connection is also allowed. Check the user manual for more information.

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): 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: 0.5 .. 2.5mm^2 2 cores: 0.5 .. 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 36 Vdc, 1.7 W 24 Vac +/-10 %, 50-60 Hz, 1.7 W Recommended: 24 Vdc
Ethernet	1 x Ethernet 10/100 Mbps RJ45 2 x Ethernet LED: port link and activity
Port A	1 x KNX TP-1 Plug-in screw terminal block orange (2 poles) 2500 Vdc isolation from other ports KNX power consumption: 5 mA Voltage rating: 29 Vdc 1 x Plug-in screw terminal block green (2 poles) Reserved for future use
Switch A (SW A)	1 x DIP-Switch for PORT A configuration: Reserved for future use
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)*
Switch B (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

Battery	Size: Coin 20 mm x 3.2 mm Capacity: 3 V / 225 mAh Type: Manganese Dioxide Lithium
Console Port	Mini Type-B USB 2.0 compliant 1500 Vdc isolation
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)*
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