

Prescription Document for IN701KNXxxx0000

Product type: The IN701KNXxxx0000 is a protocol translator to connect ASCII, BACnet, or Modbus devices into control systems based on KNX, and to connect KNX devices into control systems based on BACnet and Modbus.

Manufacturer: HMS Industrial Networks SLU.

Product description: Configure this gateway with any of its five available applications to integrate BACnet, Modbus, or ASCII devices (serial or IP/TCP) into KNX networks, and to integrate KNX devices into BACnet or Modbus networks (serial or IP/TCP).

Installation: DIN rail

Main features:

- Five applications available for the same hardware:
 - BACnet/IP and MS/TP client to KNX TP.
 - Modbus TCP and RTU client to KNX TP.
 - KNX TP to BACnet/IP and MS/TP server.
 - KNX TP to Modbus TCP and RTU server.
 - KNX TP to ASCII IP and serial.
- Late configuration: Change between applications easily.
- Easy configuration with Intesis MAPS, the Intesis in-house-developed configuration tool.
- Scanning function: Find all BACnet devices connected to the network automatically.
- Several capacity versions: From 100 to 3000 objects/registers/group addresses.
- Three-year warranty.

Equipment and accessories: Intesis gateway, installation sheet, and configuration cable (USB A type to USB Mini-B type)

Standards, guidelines, and certificates:

- BACnet and UL certified.
- EC conformity to EMC directive (2014/30/EC) and low-voltage directive (2014/35/EC).
- EN 55032, EN 55024, EN 62368-1.
- Compliant with RoHS 2 directive (2011/65/EU).

Technical specifications:

Housing	Plastic, type PC (UL 94 V-0) Color: Light grey (RAL 7035) Dimensions: 90x88x56 mm / 3.54x3.46x2.20"	Mounting	DIN rail
Wiring	Cross-section/Gauge per terminal: One core: 02 .. 2.5 mm ² (24 .. 14 AWG) Two cores: 0.2 .. 1.5 mm ² (24 .. 16 AWG) Three cores: Not permitted Use solid or stranded wires (twisted or with ferrule)	Power supply	1 x Green pluggable terminal block (three poles) Ground, negative, and positive Range of power: For DC: 9 .. 36 VDC, Max: 260 mA For AC: 24 VAC ±10%, 50-60 Hz, Max: 100 mA Recommended: 24 VDC, Max: 100 mA
Port A	1 x Green pluggable terminal block (two poles) A1, A2: Not used 1 x Orange pluggable terminal block (two poles) KNX bus connection A3: + A4: - 1500 VDC isolation from other ports	Port B EIA-485	1 x Green pluggable terminal block (three poles) B1: A+ B2: B- B3: SG (Signal ground) 1500 VDC isolation from other ports (Except for Port B EIA-232)
		Port B EIA-232	1 x DB9 male connector 1500 VDC isolation from other ports (Except for Port A EIA-485)
Ethernet	1 x Ethernet RJ45 10/100BASE-T	Console port	USB Mini-B type 2.0 compliant 1500 VDC isolation
USB port	USB A type 2.0 compliant Only for USB flash storage devices (USB pen drives). HDD connection not allowed Power consumption limited to 150 mA	LED indicators	10 x Onboard LEDs 1 x Power, 1 x Error, 2 x Ethernet, 2 x Port A, 2 x Port B, 1 x Button A, 1 x Button B
DIP switches	2x DIP switches for EIA-485 ports configuration Position 1: ON: 120 Ω termination active OFF: 120 Ω termination inactive (default) Position 2 and 3: • ON: polarization active • OFF: polarization inactive (default)	Buttons	2 x Push buttons (factory reset) Button A Button B
		Battery	Type: Manganese Dioxide Lithium button battery Size: 20x3.2 mm (0.79" x 0.13") Capacity: 3 V, 255 mA
		Operational conditions	Temperature: 0 .. 60°C Humidity: 5 .. 95% non-condensing