Intesis IN702MEB***0000 Tender Document

Document version: 1.0.0

Product type: The IN702MEB***0000 is a protocol converter to integrate Modbus devices and meters, M-Bus meters, and pulse meters into a Modbus, KNX, or BACnet control system

Manufacturer: HMS Industrial Networks SLU.

Product description: The IN702MEB***0000 metering gateway enables communication between Modbus meters/devices, M-Bus meters, and pulse meters on one side and a control system based on Modbus TCP, Modbus RTU, KNX-TP, BACnet/IP, or BACnet MS/TP on the other side.

Installation: DIN rail or wall.

Equipment and accessories: Intesis gateway and installation guide.

Standards, guidelines, and certificates:

- BTL and UL certified.
- Conformity to the EMC directive 2014/30/EC. Standards EN 55032:2015 + AC:2016 + A11:2020 + A1:2020. EN 55035:2017 + A11:2020
- Conformity to the low voltage directive 2014/35/EC. Standards EN 62368-1:2020 + A11:2020
- Compliant with the RoHS 2 directive (2011/65/EU).

Main features:

- Several protocol combinations available: Configurable for Modbus TCP and RTU, KNX TP, BACnet/IP and MS/TP.
- M-Bus meters, Modbus meters, Modbus devices other than meters, and pulse meters are supported at the same time. Any type of metering device is supported: energy meters, water meters, gas meters, flow meters, etc.
- Four licenses with different capacities: 10, 20, 60, and 100 devices.
- Scan function: Find the meters connected to the bus and get their signal values.
- Inter-polling interval configurable to up to 48 hours to extend meter battery life.
- Error detection of every meter device.
- 2 x DIP switches for EIA-485 bus termination and biasing.
- Accredited with the main certifications for electronic equipment.
- Three-year warranty.

Technical specifications:

Housing	Plastic, type PC (UL 94 V-0). Color: Light Grey. RAL 7035 Net dimensions (HxWxD): Millimeters: 90 x 106 x 58 mm / Inches: 3.5 x 4.2 x 2.3" Protection: IP20
Mounting	DIN rail (EN60715 TH35) or wall (M3 25 mm/1" length screws)
Wiring	Wire cross-section/gauge: One core: 0.2 .. 2.5 mm^2 (24 .. 14 AWG), two cores: 0.2 .. 1.5 mm^2 (24 .. 16 AWG), > two cores: Not permitted. Use solid or stranded wires (twisted or with ferrule)
Power	24 VDC (±10%), 17 W
EIA-485 port	1 x Green pluggable terminal block (Three poles: **SG**: Reference ground or shield, **B-**, **A+**)
KNX port	1 x Orange pluggable terminal block (Two poles: **+**, **-**)
Ethernet port	1 x Ethernet 10/100 Mbps RJ45
Modbus Devices port (EIA-485)	1 x Green pluggable terminal block (Three poles: **A+**, **B-**, **SG**: Reference ground or shield)
M-Bus port	1 x Green pluggable terminal block (Three poles: **-**, **+**, **SG**: Reference ground or shield)
Binary inputs	1 x Green pluggable terminal block (Four poles: **I1**, **I2**, **I3**: Input 1, 2, and 3, **C**: Common)
Console port (USB)	USB-C
LEDs	2 x Run (Power/Error), 12 x Comm port (TX/TR), 1 x Button indicator
DIP switches	2 x DIP switch blocks for EIA-485 bus termination and biasing
Button	1 x Push button: Factory reset, I-Am message (for BACnet), programming mode (for KNX)
Operational temperature	Celsius: -10 .. 60°C / Fahrenheit: 14 .. 140°F
Operational humidity	5 to 95%. No condensation
Isolation voltage between comm. ports	1000 VDC