

INBACMEB***0100

MBUS to BACnet IP Server gateway

Order Codes:

INBACMEB0200100 (20 devices)

INBACMEB0500100 (50 devices)

HOW IT WORKS

The Intesis **INBACMEB***0100** Gateway has been specially designed to work as a translator between a MBUS installation and BACnet IP based control and monitoring systems.

Intesis acts as a master in the M-BUS line, retrieving data from all configured meters, allowing BACnet IP client devices to read all configured M-BUS signals.

Intesis connects directly to both the BACnet IP installation, and to the M-BUS M+/M- line (no M-BUS level converter required).

Configuration project is done through Intesis MAPS.



FEATURES

- Handles conversion between BACnet (IP) and M-BUS meters (number of supported meters depends on Intesis version)
- M-BUS line scan (meter detection) and register discovery functionality, to easy configuration process.
- Configuration through IP port
- On board LED indicators to provide easy to check communication status on both the Ethernet and serial ports
- Includes Intesis MAPS with automatic updates for both Intesis MAPS and Gateway's firmware

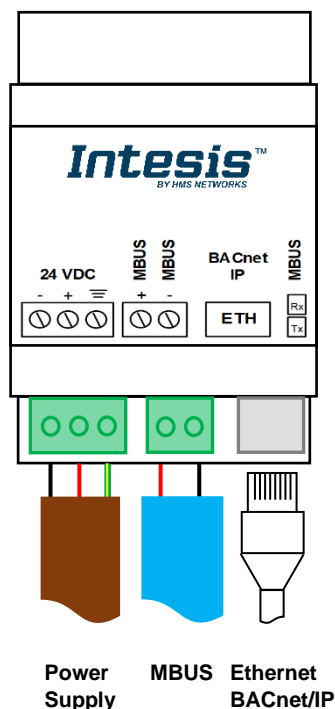
INTEGRATION EXAMPLE

M-Bus

ASHRAE BACnet™ BTL



CONNECTIONS



PROTOCOLS

M-Bus

M-Bus ("Meter-Bus") is a new European standard for remote reading of heat meters and it is also usable for all other types of consumption meters as well as for various sensors.

M-Bus is based on a two-wire physical layer, using bus topology, where each meter will have an own address for communication with a central gateway.

Key aspects of the M-Bus communication standard include large number of available devices in the market, possibility of network expansion and robustness of its physical layer.

For further information, please visit www.m-bus.com

BACnet

BACnet is the Data Communication Protocol for Building Automation and Control Networks. Developed under the auspices of the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).

BACnet is an American national standard, a European standard, a national standard in more than 30 countries and an ISO global standard. The protocol is supported and maintained by ASHRAE Standing Standard Project committee 135.

For further information, please visit www.bacnet.org

COMMUNICATION

	BACnet	M-BUS
Connection	10BASE-T 100BASE-TX	M+/M-
Date rate	10 Mbps 100 Mbps	0.3, 0.6, 1.2, 2.4, 9.6 kbps
Data Types & Functions supported	Object types 0-AO (Analog Output) 1-AI (Analog Input) 2-AV (Analog Value) 3-BO (Binary Output) 4-BI (Binary Input) 5-BV (Binary Value) 13-MI (Multistate Input) 14-MO (Multistate Output) 15-MV (Multistate Value)	Secondary and primary addressing supported Supports all VIF/VIFE defined in the M-BUS standard

ELECTRICAL & MECHANICAL FEATURES

Housing	Plastic, type ABS (UL 94 V-0) Net dimensions (HxWxD): 93x53x58 mm Recommended space for installation (HxWxD): 100x60x70mm 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) One core: 0.2 mm ² ... 2.5 mm ² Two cores: 0.2 mm ² ... 1.5 mm ² Three cores: Not permitted
Power	1 x Plug-in screw terminal block (3 poles) Positive, Negative, Earth 24 VDC±10% Max: 205 mA
Ethernet	1 x Ethernet 10/100 Mbps RJ45 2 x Ethernet LED: port link and activity
Port	1 x M-Bus port (Plug-in screw terminal block 2 poles) M-Bus power consumption: Normal operating level: 90 mA (50 M-Bus unit loads +20%) Collision detection: 25 mA Overload level: 215 mA Voltage rating: 36 VDC
Operation Temperature	0°C to +60°C
Operational Humidity	5 to 95%, no condensation
Protection	IP20 (IEC60529)

