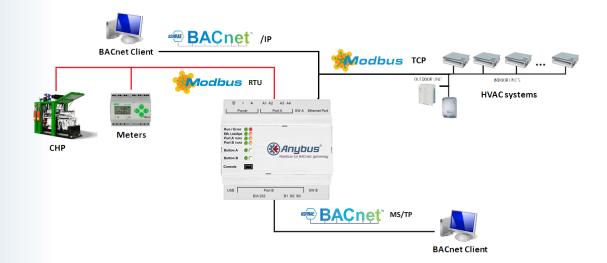


Modbus to BACnet gateway

The Anybus Modbus to BACnet gateway allows Modbus slave devices to communicate on a BACnet network. The gateway works as a translator between the two networks allowing both Modbus RTU and Modbus TCP signals show up as individual BACnet objects on any BACnet/IP or BACnet MS/TP network. This enables central control and supervision of Modbus devices from a BACnet BMS in a building.





Datapoints

Thanks to the variable number of supported datapoints ranging from 100 to 3,000 signals, this gateway covers all applications from small installations up to very large networks.

Order codes:

AB9900-100 (100 datapoints) AB9900-250 (250 datapoints) AB9900-600 (600 datapoints) AB9900-1200 (1200 datapoints) AB9900-3000 (3000 datapoints)

What's included?

Gateway **USB** Cable Installation sheet



HMS provides a full 3 year product guarantee

How it works

Modbus RTU and BACnet MS/TP networks are connected to their corresponding serial ports of the gateway, while Modbus TCP and BACnet/IP networks are connected to the Ethernet port. You will need to create a configuration project using the easy and powerful Anybus Configuration Manager (MAPS). You can then do commissioning and troubleshooting also using this tool.

Features and benefits

- Handles conversion between Modbus (RTU & TCP) and BACnet (IP & MS/TP).
- Supports BACnet version 12.
- Manages Modbus TCP and Modbus RTU simultaneously.
- Connects up to 254 Modbus devices to BACnet (processing up to 3000 Modbus registers).
- A simple yet powerful config tool allows commissioning, debugging and troubleshooting.
- Import and export to Excel for further signal processing.
- Comes in a plastic housing that mounts on 35-mm DIN-rail.
- Configuration could be done through IP or USB port LED indicators provide communication status on both the Ethernet and serial ports.



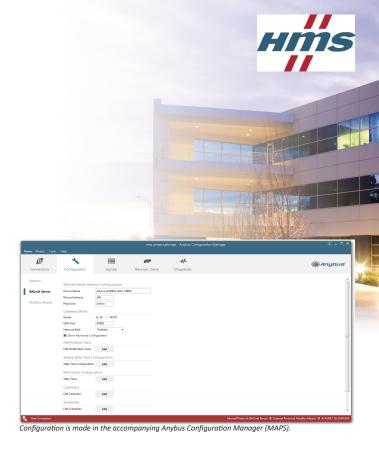
What is BACnet?

BACnet is a data communication protocol mainly used in the building automation and HVAC industry (Heating Ventilation and Air-Conditioning). The most common serial version is called BACnet MS/TP while the dominant Ethernet version is BACnet/IP.



TECHNICAL SPECIFICATIONS

Dimensions				
Dimensions	(L•W•H)	90•88•56 mm		
PROTECTION	N CLASS	IP20		
Enclosure	material	Plastic, Type PC (UI	_ 94 V-0)	
1	Mounting	DIN rail (35 mm)		
	PORT A	X Serial EIA485 (Plug-in screw terminal block 2 poles) X SGND (Plug-in screw terminal block 2 poles) 1500VDC isolation from others ports		
	Port B	1 x Serial EIA232 (SUB-D9 male connector) Pinout from a DTE device 1500VDC isolation from other ports (except PORT B: EIA485) 1 x Serial EIA485 (Plug-in screw terminal block 3 poles) (Reference ground or shield) 1500VDC isolation from other ports (except PORT B: EIA232)		
Ethe	ernet port	1 x Ethernet 10/100 Mbps RJ45 2 x Ethernet LED: port link and activity		
Con	sole port	Mini-USB to connect a PC (to run the Anybus Configuration Manager). It is also possible to connect via the Ethernet port.		
USB port		For datalogging on an external USB stick		
Power Environmental Character		24VAC +/-10% 50-60Hz, Max.: 127mA. Recommended: 24VDC		
Operating temp				
Storage temp		0 to 60 °C, 32 to 140)°F	
Stora				
		·	185 °F	
Relative	age temp	-40 to 85 °C, -40 to 5-95 % non-condens	185 °F	EIA-485 Port B
Relative Communication	age temp Humidity	-40 to 85 °C, -40 to 5-95 % non-condens	185 °F sing	EIA-485 Port B Bacnet Rev 12
Relative Communication Compliance	Humidity Ethe	-40 to 85 °C, -40 to 5-95 % non-condens	185 °F sing EIA-485 Port A	
	Humidity Ether	-40 to 85 °C, -40 to 5-95 % non-condensernet	185 °F sing EIA-485 Port A Modbus V1.02	Bacnet Rev 12 BACnet MS/TP
Relative Communication Compliance Protocols supported	BEEE 81 Modbus 10 Mbp	-40 to 85 °C, -40 to 5-95 % non-condent rnet 02.3 s TCP BACnet/IP	185 °F sing EIA-485 Port A Modbus V1.02 Modbus RTU 2.4, 4.8, 9.6, 19.2,38.4,	Bacnet Rev 12 BACnet MS/TP Auto, 9.6, 19.2, 38.4, 57.6
Relative Communication Compliance Protocols supported Data rate Physical layer	BEEE 81 Modbus 10 Mbp	-40 to 85 °C, -40 to 5-95 % non-conden- rnet 02:3 s TCP BACnet/IP s, 100 Mbps	185 °F sing EIA-485 Port A Modbus V1.02 Modbus RTU 2.4, 4.8, 9.6, 19.2,38.4, 57.6, 115.2kbps	Bacnet Rev 12 BACnet MS/TP Auto, 9.6, 19.2, 38.4, 57.6 76.8, 115.2kbps
Relative Communication Compliance Protocols supported Data rate	Humidity Ethe IEEE 8 Modbus 10 Mbp 10BASI	-40 to 85 °C, -40 to 5-95 % non-conden- rnet 02:3 s TCP BACnet/IP s, 100 Mbps	EIA-485 Port A Modbus V1.02 Modbus RTU 2.4, 4.8, 9.6, 19.2,38.4, 57.6, 115.2kbps EIA-485, 3-wire isolated	Bacnet Rev 12 BACnet MS/TP Auto, 9.6, 19.2, 38.4, 57.6 76.8, 115.2kbps EIA-485, 3-wire isolated





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