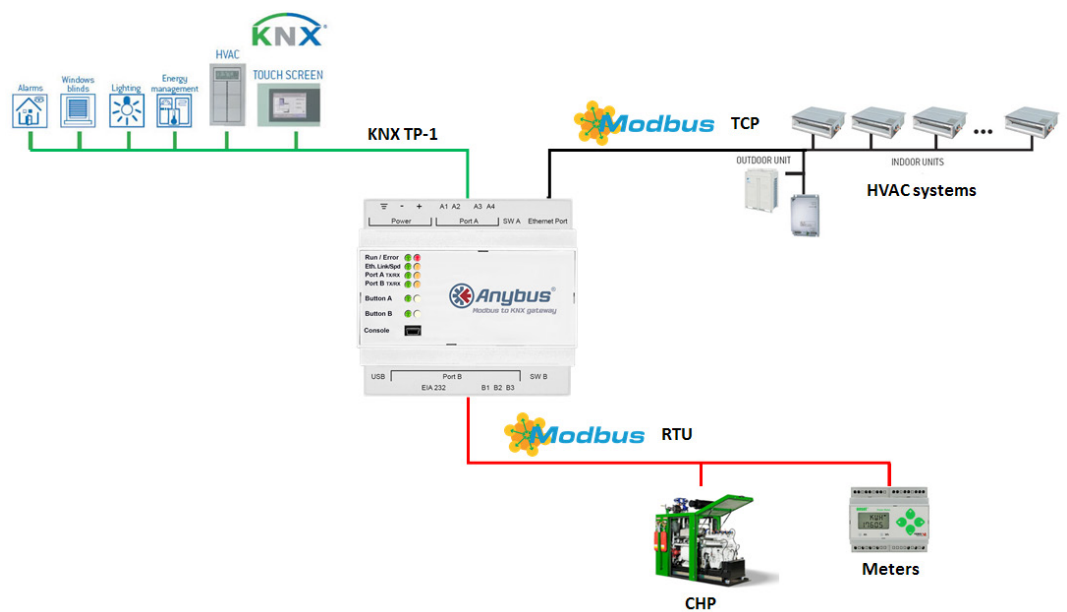


Modbus to KNX gateway

The Anybus Modbus to KNX gateway allows Modbus slave devices to communicate on a KNX network. The gateway works as a translator between the two networks allowing both Modbus RTU and Modbus TCP signals to be read and controlled from any KNX TP1 network. This enables central control and supervision of Modbus devices from a KNX system 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:

AB9901-100 (100 datapoints)
 AB9901-250 (250 datapoints)
 AB9901-600 (600 datapoints)
 AB9901-1200 (1200 datapoints)
 AB9901-3000 (3000 datapoints)

What's included?

Gateway
 USB Cable
 Installation sheet

How it works

Modbus RTU slaves are connected to the serial port of the gateway, while Modbus TCP devices are connected to the Ethernet port. On the KNX side, the gateway simulates a KNX device and acts as if it was another device in the KNX system. 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 KNX TP1.
- Manages Modbus TCP and Modbus RTU simultaneously.
- Connects up to 254 Modbus devices to KNX (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 KNX?

KNX is a standard for all applications in home and building control, ranging from lighting and shutter control to various security systems, heating, ventilation, air conditioning, monitoring, alarming, water control, energy management, metering as well as household appliances, audio and more.



HMS provides a full 3 year product guarantee

TECHNICAL SPECIFICATIONS



Technical Details	
Dimensions (L-W-H)	90*88*56 mm
PROTECTION CLASS	IP20
Enclosure material	Plastic, Type PC (UL 94 V-0)
Mounting	DIN rail (35 mm)
PORT A	1 x KNX TP1 2500 VDC isolation from other 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)
Ethernet port	1 x Ethernet 10/100 Mbps RJ45 2 x Ethernet LED: port link and activity
Console 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

Certifications

CE and RoHS compliant

Electrical Characteristics

Power 1 x Plug-in screw terminal block (3 poles) 9 to 36VDC +/-10%, Max.: 140mA.
24VAC +/-10% 50-60Hz, Max.: 127mA Recommended: 24VDC

Environmental Characteristics

Operating temp 0 to 60 °C, 32 to 140 °F

Storage temp -40 to 85 °C, -40 to 185 °F

Relative Humidity 5-95 % non-condensing

Communication	Ethernet	EIA-485 Port B	KNX TP1 Port A
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Compliance	IEEE 802.3	Modbus V1.02	
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Protocols supported	Modbus TCP client	Modbus RTU master	KNX
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Datatypes / Functions supported	1-Read Digital Outputs 2-Read Digital Inputs 3-Read Holding Registers 4-Read Analog Registers 5-Write single Digital Output 6-Write single Analog Register 15-Write Multiple Digital Output 16-Write Multiple Holding Registers		DPT 1.X DPT 5.X DPT 6.x DPT 7.x DPT 8.x DPT 9.X DPT 12.x DPT 13.x DPT 14.x DPT 20.x (Check all the detailed DPTs supported in the user's manual)
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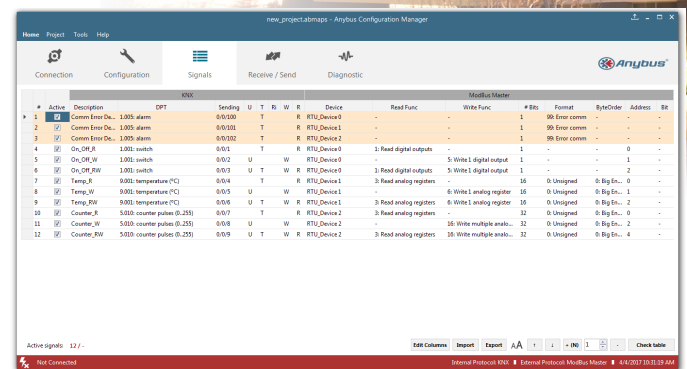
Data rate	10 Mbps, 100 Mbps	2.4, 4.8, 9.6, 19.2, 38.4, 57.6, 115.2kbps	9.6 kbps
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Physical layer	10BASE-T, 100BASE-TX	EIA-485, 3-wire isolated	KNX TP1, two twisted pairs, overall shield and sheath
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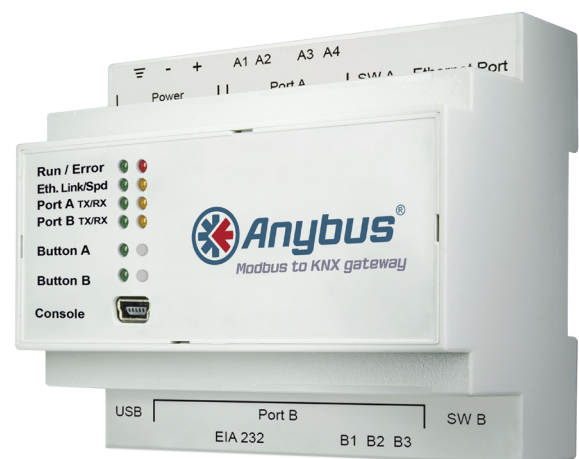
Cable length (max)	100 m	1200 m (1000 at 115.2kbps)	
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Port connector	Shielded RJ-45	2-pin + 2-pin removable terminal	2-pin removable terminal
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LEDs	L(Link) D(Duplex) Green = 100 Mbps Green = Full-duplex Yellow = 10 Mbps Off = Half-duplex Flash = Activity Flash = Collision	Tx Rx	Tx Rx
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Configuration is made in the accompanying Anybus Configuration Manager (MAPS).



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