



## Anybus X-gateway - Modbus TCP Client - Modbus TCP Server

The Anybus X-gateway provides a seamless connection between a Modbus TCP upper network and a secondary Modbus TCP sub-network. This makes it possible to extend a Modbus TCP network and devices without a secondary PLC system.

### FAST COPYING OF I/O DATA

The X-gateways primary function is with the fast transfer of cyclic I/O data between the two networks. This offloads your PLC from working with additional calculations. The gateway acts as a Server on the upper Modbus TCP network and as a full Master/Client on the other side. The data transmission between the two networks is completely transparent with a maximum I/O data capacity of 256 bytes in each direction.

### EASY CONFIGURATION - NO PROGRAMMING REQUIRED!

Configuration is made via Ethernet and a built-in web page. The configuration page is used to configure Ethernet TCP/IP settings, Modbus TCP client/server configuration and I/O data size transfer between Modbus TCP and the chosen network.



## Features and benefits

- Fast copying of cyclic I/O data between a two Modbus TCP networks (5 ms)
- Allows for the integration of Modbus TCP based server/slave devices into another PLC control systems
- Full Modbus TCP Client/Master functionality, eliminates the need for an additional PLC controller on the Modbus TCP network
- Connects up to 64 Modbus Servers/Slave devices
- Max I/O data capacity of 256 bytes in each direction
- Possibility to build web pages displaying and controlling a factory floor process with data from the other connected network
- SD memory card slot allows for backup, configuration and easy module replacement
- Robust stand-alone housing for use in harsh industrial environments
- Global free technical support and consultancy

## Modbus TCP Client/Master interface

Modbus TCP Client and Server setup is made via an included visual web configuration interface without the need for any programming.

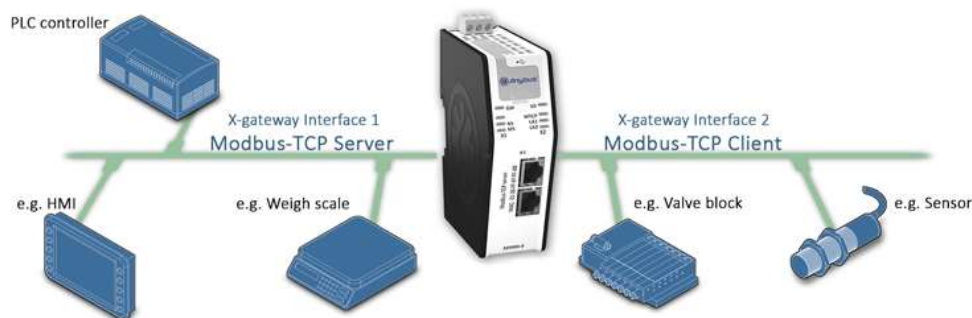
- Modbus TCP Client functionality according to Modbus specification V1.1B
- Support for Modbus TCP functions 1, 2, 3, 4, 5, 6, 15, 16, 23
- Connects up to 64 Modbus TCP servers/slaves
- Supports up to max 256 bytes of Input and 256 bytes of Output data
- 10/100Mbit operation in full or half-duplex
- Integrated FTP server provides easy file management using standard FTP clients
- Web server with dynamic data capability and Server Side Include (SSI) capability

- Email client with dynamic data capability and Event-triggered email handling
- Downlink Live List providing Modbus-TCP transaction status to uplink PLC
- Control and Status words for downlink network control/status
- Individual Modbus TCP server port number setting
- Byte Swap feature
- Full Modbus address range (1-65536)
- Dual Modbus TCP RJ-45 ports available simultaneously

## Modbus TCP Slave interface

Modbus TCP Slave settings can be made either via the built-in web interface, or by importing the provided .EDS file into engineering tool of the controlling PLC.

- Conforms to Modbus TCP v1.0
- Modbus TCP class 0, class 1 and partially class 2 slave functionality
- 10/100Mbit operation in full or half-duplex
- Integrated FTP server provides easy file management using standard FTP clients
- Web server with dynamic data capability and Server Side Include (SSI) capability
- Email client with dynamic data capability and Event-triggered email handling
- Per-user security framework
- Quality of Service (QoS) available
- DNS Capability
- TCP/IP settings via DHCP/ARP/Anybus IPconfig (HICP)
- Integrated switch allowing for a daisy-chain topology
- 2x RJ-45 ports available simultaneously.



## Technical specifications

<b>Dimensions (L•W•H)</b>	110 x 35 x 101 mm or 4,33 x 1,38 x 3,98"	
<b>Weight</b>	160g or 0,35 lbs	
<b>Operating temperature</b>	-25 to +70 °C or -13 to +158 °F	
<b>Storage temperature</b>	-40 to +85 °C or -40 to +185 °F	
<b>Power supply</b>	24 VDC +/- 10 %	

<b>Current consumption</b>	Typical 150 mA	
<b>USB port</b>	For firmware upgrades	
<b>SD memory card slot</b>	For backup, configuration and easy replacement	
<b>Modbus TCP connector</b>	2x RJ45	
<b>Fieldbus/Ethernet connector</b>	(See the secondary network interface details above)	
<b>Galvanic isolation</b>	On both BUS/Ethernet side	
<b>Mechanical rating</b>	IP20, NEMA rating 1	
<b>Mounting</b>	DIN-rail (EN 50022 standard) or Wall Mount (optional)	
<b>Certifications</b>	CE, CULUS, ATEX (zone 2), CULUS Haz.Loc (class 1 div 2)	

File	Version	Size	Read online
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## Ordering information

<b>Order Code</b>	AB9008
<b>Included components</b>	<p>Gateway Quick start documentation Connector terminals</p> <p>Power supply <b>not</b> included PLEASE NOTE: SD-card not included.</p> <p>Configuration software is available for download.</p>
<b>Accessories</b>	<p>021520: Wall mount option 021530: SD-memory card (industrial grade)</p>

3 year guarantee. For purchasing instructions and terms and conditions, see: [How to buy](#).

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