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

**Item number: AB9008-B**

The Anybus X-gateway Modbus TCP Client to Modbus TCP Server enables you to connect any Modbus TCP device or equipment to Modbus TCP control systems. It can be used when there is no existing Modbus TCP control system. Anybus gateways ensure reliable, secure, high-speed data transfers between different industrial networks while being easy to use.

*A protocol converter that connects Modbus TCP devices to Modbus TCP PLCs*

# Features and benefits

**Reach new markets**

Target new markets using different protocols without needing to change your hardware or software, thereby decreasing your time to market and development costs.

**Slim hardware design**

The gateway is designed for IP20 and DIN-rail mounting, enabling you to install it with ease, close to connected devices, thereby reducing wiring requirements.

**Easy configuration – No programming required!**

Quickly establish the connection between the two networks with the included Anybus Configuration Manager software. No programming skills are required for the setup process.

**Powerful**

Up to 512 bytes of Input and Output data in each direction.

**Life cycle management**

HMS maintains every part of the gateway, including network updates, throughout the product's lifecycle.

**No PLC card slot needed**

The gateway does not use a card slot in the control system, leaving room for other equipment.

**3-year warranty**

The gateway is designed to be robust and long-lasting. A 3-year guarantee is provided.

**Increased PLC performance**

The gateway allows for fast transfer of cyclic I/O data between the two networks, offloading your PLC from working with additional calculations.

**Trusted partner**

Anybus has a long history of working with all the major network organizations to ensure compliant, high-performing, and compatible products.

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## Identification and Status

| | |
|---|---|
| **Product ID** | AB9008-B |
| **Country of Origin** | Sweden |
| **HS Code** | 8517620000 |
| **Export Control Classification Number (ECCN)** | 5A991.b.1 |

## General

| | |
|---|---|
| **Net Width (mm)** | 35 |
| **Net Height (mm)** | 110 |
| **Net Depth (mm)** | 101 |
| **Net Weight (g)** | 160 |
| **Packed Width (mm)** | 14 |
| **Packed Height (mm)** | 6 |
| **Packed Depth (mm)** | 17 |
| **Packed Weight (g)** | 220 |
| **Operating Temperature °C Min** | -25 |
| **Operating Temperature °C Max** | 60 |
| **Storage Temperature °C Min** | -40 |
| **Storage Temperature °C Max** | 85 |
| **Current Consumption Type Value at Vcc Nom (mA)** | 150mA @ 24V DC |
| **Current Consumption Max value at Vcc nom (mA)** | 300mA @ 24V DC |
| **Input Voltage (V)** | 24V DC (-15% to +20%) |

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## General

| | |
|---|---|
| **Power Connector** | 3-pin, 5.08 Phoenix plug connector |
| **Isolation** | TRUE |
| **Mounting** | DIN-rail (EN 50022 standard) |
| **Housing Materials** | Plastic |
| **Packaging Material** | Cardboard |

## Physical Features

| | |
|---|---|
| **Connectors / Input / Output** | 2xRJ45, 2xRJ45 |

## Modbus-TCP Features

| | |
|---|---|
| **Modbus-TCP Mode** | Master / Client, Slave / Server |
| **Modbus-TCP Supported Functionality** | Modbus specification V1.1B;Functions 1, 2, 3, 4, 5, 6, 15, 16, 23;Endian Conversion (Byte swap);LiveList;ControlStatus, 4 connections;Daisy chaining;Functions 1, 2, 3, 4, 5, 6, 15, 16, 23, 43 |
| **Modbus-TCP No. Of Servers** | 64 transactions |
| **Modbus-TCP Bandwidth** | 10/100 Mbit/s down to 10ms, 10/100 Mbit/s |
| **Modbus-TCP Input Data Size** | 256 bytes, 256 bytes |
| **Modbus-TCP Output Data Size** | 256 bytes, 256 bytes |

## Certifications and Standards

| | |
|---|---|
| **Protection Class IP** | IP20 |
| **Recycle / Disposal** | TRUE |
| **UL Information** | E214107: Ord.Loc UL 61010-1, UL 61010-2-201, CSA C22.2 NO. 61010-1-12, CSA C22.2 NO. 61010-2-201:14; E203225: Haz.Loc CL I DIV2 GP A,B,C,D T4, ANSI/ISA 12.12.01, ANSI/ISA 12.12.01 |
| **ATEX Information** | II 3 G Ex nA IIC T4 Gc, EN IEC 60079-0; EN 60079-15 |
| **Environment** | EN 61000-6-4, EN 55016-2-3 Class A, EN 61000-6-2, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6 |
| **WEEE Category** | IT and telecommunications equipment |