

AB9001-B

Anybus X-gateway Modbus TCP Client to PROFIBUS Slave

Anybus AB9001-B is an X-gateway that connects Modbus TCP server devices to a PROFIBUS control system. It operates as a Modbus TCP client on Ethernet and as a PROFIBUS DP or DP-V1 slave.

IDENTITY	VERIFIED VALUE
Manufacturer	Anybus
System family	Anybus X-gateway industrial network gateway
Part number	AB9001-B
Product role	Connects Modbus TCP server devices to a PROFIBUS master
Lifecycle	Installed product record

DOCUMENT SCOPE

Exact-article identity, technical data, host role, installation checks, applications, precautions and engineering verification.

MODEL-SPECIFIC ENGINEERING NOTE

Record the Ethernet, PROFIBUS, power and byte-map configuration before exchange. Restore the approved file and validate every mapped data area and diagnostic after controlled power-up.

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AB9001-B

Technical Specifications

Technical values below are limited to the named Anybus product record and directly applicable manufacturer documentation.

PARAMETER	VALUE	PARAMETER	VALUE
Country of origin	Sweden	PROFIBUS role	DP / DP-V1 Slave
HS code	8537101190	Ethernet bandwidth	10/100 Mbit/s
Product ID	AB9001-B	Minimum transaction cycle	10 ms
Modbus TCP role	Master / Client	Modbus TCP transactions	64

Verified Product Record

DATA GROUP	VERIFIED VALUE
Installed host / carrier	Anybus X-gateway industrial network gateway
Primary system role	Connects Modbus TCP server devices to a PROFIBUS master
Connection boundary	Record the Ethernet, PROFIBUS, power and byte-map configuration before exchange. Restore the approved file and validate every mapped data area and diagnostic after controlled power-up.
Controlled acceptance duty	Modbus TCP device integration

ENGINEERING BOUNDARY

Confirm AB9001-B, 24 V DC power, Ethernet settings, Modbus transactions, PROFIBUS node, GSD and byte map before commissioning.

Pre-Installation Checks

1	Confirm AB9001-B on the product label and record the installed firmware and configuration file.	2	Isolate the 24 V DC supply and connected network equipment before removing conductors.
3	Record both RJ45 connections, IP settings, server addresses and the complete transaction list.	4	Record the PROFIBUS node address, GSD, baud-rate behavior and input/output byte allocation.

Documented Service Record

RECORD ITEM	REQUIRED ENTRY
As-found article	AB9001-B
Installed host	Anybus X-gateway industrial network gateway
Connection record	Capture before removal
Controlled release	Diagnostics and functional proof

System Role and Architecture

Anybus AB9001-B is an X-gateway that connects Modbus TCP server devices to a PROFIBUS control system. It operates as a Modbus TCP client on Ethernet and as a PROFIBUS DP or DP-V1 slave.

FUNCTION 1

Connects Modbus TCP server devices to a PROFIBUS master

FUNCTION 2

Maps separate input and output data areas between the two networks

FUNCTION 3

Supports PROFIBUS DP-V1 acyclic services and diagnostics

FUNCTION 4

Uses browser-free gateway configuration through the documented configuration manager

Matched System Components

NO.	DOCUMENTED COMPONENT / ROLE
1	Anybus X-gateway industrial network gateway
2	8537101190
3	Modbus TCP device integration
4	Record the Ethernet, PROFIBUS, power and byte-map configuration before exchange. Restore the approved file and validate every mapped data area and diagnostic after controlled power-up.

System Integration Record

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	Anybus X-gateway industrial network gateway
Interface role	Connects Modbus TCP server devices to a PROFIBUS master
Field / power context	Connect the documented Modbus TCP servers to the approved PROFIBUS master through the recorded network, power and I/O mapping.
Commissioning evidence	Verify every mapped byte, PROFIBUS diagnostics, Modbus exception handling and controlled process response.

Installation and Connection Checks

1

Use ESD controls and inspect the DIN-rail latch, power plug, D-sub and Ethernet connectors.

2

Restore protective separation and route communication cables away from interference sources.

3

Load the approved gateway configuration before reconnecting the PLC and field devices.

4

Verify every mapped byte, PROFIBUS diagnostics, Modbus exception handling and controlled process response.

MANUFACTURER SOURCE RECORD

Anybus X-gateway - Modbus TCP Client - PROFIBUS Slave Datasheet
HMS Networks AB9001-B generated datasheet

Applications and Engineering Context

Modbus TCP device integration

Maps documented Ethernet device data into a PROFIBUS PLC process image.

Legacy PROFIBUS cell modernization

Retains an installed PROFIBUS controller while adding Ethernet-connected field equipment.

Multi-server data concentration

Coordinates the approved Modbus TCP transaction list before presenting values to the master.

Gateway replacement and migration

Provides an as-found mapping reference before migration to the official replacement gateway.

TECHNICAL NOTE

Record the Ethernet, PROFIBUS, power and byte-map configuration before exchange. Restore the approved file and validate every mapped data area and diagnostic after controlled power-up.

Model-Specific Acceptance Evidence

CHECK	ACCEPTANCE CONDITION
Identity	AB9001-B recorded
Host / carrier	Anybus X-gateway industrial network gateway
Physical interface	Connects Modbus TCP server devices to a PROFIBUS master
Configuration	Load the approved gateway configuration before reconnecting the PLC and field devices.
Functional proof	Verify every mapped byte, PROFIBUS diagnostics, Modbus exception handling and controlled process response.

IMPORTANT NOTICE

Confirm AB9001-B, 24 V DC power, Ethernet settings, Modbus transactions, PROFIBUS node, GSD and byte map before commissioning.

Controlled Release Summary

RELEASE ITEM	MODEL-SPECIFIC CONDITION
Article identity	AB9001-B
Approved role	Modbus TCP device integration
Final validation	Verify every mapped byte, PROFIBUS diagnostics, Modbus exception handling and controlled process response.

Engineering Precautions

- 1

Confirm AB9001-B on the product label and record the installed firmware and configuration file.
- 2

Isolate the 24 V DC supply and connected network equipment before removing conductors.
- 3

Record both RJ45 connections, IP settings, server addresses and the complete transaction list.
- 4

Record the PROFIBUS node address, GSD, baud-rate behavior and input/output byte allocation.
- 5

Use ESD controls and inspect the DIN-rail latch, power plug, D-sub and Ethernet connectors.
- 6

Restore protective separation and route communication cables away from interference sources.
- 7

Load the approved gateway configuration before reconnecting the PLC and field devices.
- 8

Verify every mapped byte, PROFIBUS diagnostics, Modbus exception handling and controlled process response.

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
AB5030-B	ANYBUS-M PROFIBUS interface	View AB5030-B page
PLX32-EIP-MBTCP	Modbus TCP/IP gateway	View PLX32-EIP-MBTCP page
FBM232	P0926GW Ethernet communication gateway	View FBM232 page
CC-IP0101	51410056-175 PROFIBUS gateway	View CC-IP0101 page
140154	XN-GWBR-PBDP PROFIBUS gateway	View 140154 page
3500/92	136180-01 communication gateway	View 3500/92 page
133323-01	Modbus RS485 I/O interface	View 133323-01 page
1C31166G02	serial link controller	View 1C31166G02 page

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