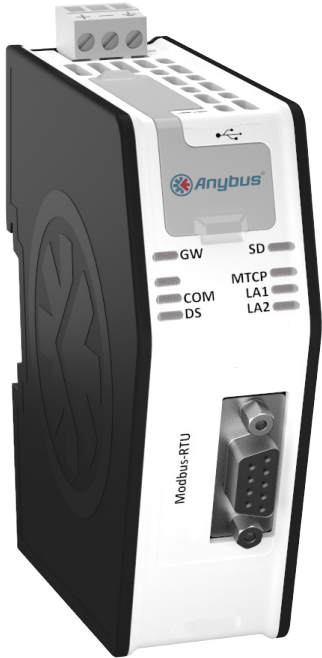


Anybus X-gateway Modbus-TCP - Modbus RTU
INSTALLATION SHEET



HMS Industrial Networks AB
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SP1328, rev 2.05, Mar 2024. AB9005. www.anybus.com

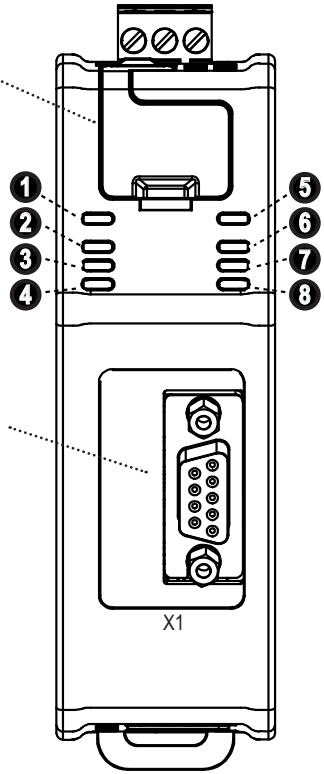
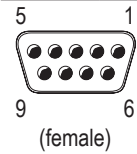
 **NOTE**
From X-gateways produced in September 2024 onwards,
SD card functionality is no longer included.

Module Front

USB port:
Connect a PC to the USB port
for firmware upgrades.

ControlNet
Connector:

Pin no	Description
1	GND
2	5 V DC output
3	PMC Connect to pin 2 for RS232 operation Leave unconnected for RS485 operation
5	RS485+ (D1) (A-line)
7	RS232 Rx, see pin 3
8	RS232 Tx, see pin 3
9	RS485- (D0) (B-line)
4, 6	Not used



LEDs: X-gateway and Modbus-TCP Network

No	Name	Indication	Meaning
1	(GW) Gateway Status	Off Alternating red/green Flashing green Green Flashing red Red	Power off Missing configuration Idle Running Invalid configuration Fatal error
5	(SD) SD Card Status	Green Flashing red	Accessing SD card Failure
6	(MTCP) Modbus-TCP Status	Off Green Flashing red Red	No Modbus-TCP network communication Communicating with Modbus-TCP network Transaction error or timeout Fatal error
7	(LA1, LA2) Ethernet Link 1 & 2	Off Flashing green Flashing yellow	No link Receiving/transmitting Ethernet packets at 100 Mbit Receiving/transmitting Ethernet packets at 10 Mbit

LEDs: Modbus RTU Network

No	Name	Indication	Meaning
2	Not used	-	-
3	(COM) Modbus RTU Com- munication	Off Yellow Red	No traffic Frame reception or transmission Fatal error
4	(DS) Device Status	Off Green Red Red, one flash	Initializing Module initialized, no error Fatal error Communication error or configuration error

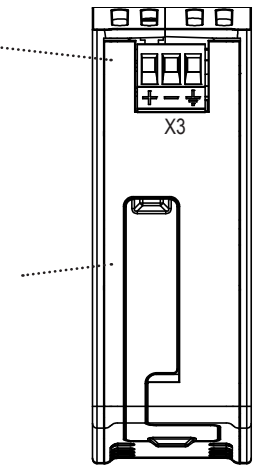
Installation and Startup Summary

- Attach the X-gateway to the DIN-rail.
- Connect the module to the ControlNet network.
- Connect the module to the Modbus-TCP network.
- Turn on the module (+24 V DC).
- Download IPconfig from www.anybus.com to a PC.
- Connect the PC to the module via one of the Modbus-TCP connectors (Ethernet crossover cable not necessary). Use IPconfig to identify the IP address of the module on the network using its Modbus-TCP MAC address (found at the bottom of the module).
- Start a web browser (IE 7.0 or 8.0), enter the IP address and connect to the X-gateway's web interface.
- Configure the module using the web configuration pages.
- Configure and start the ControlNet network.

Top View

Power:
(+) +24 V DC
(-) GND
(PE) PE

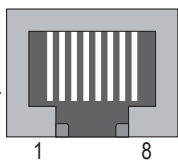
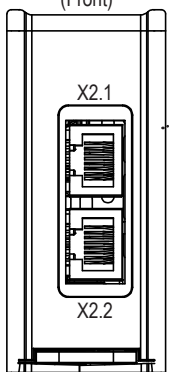
SD card slot:



Bottom View

Modbus-TCP Connector:

(Front)



Pin no	Description
1	TX+
2	TX-
3	RX+
6	RX-
4, 5, 7, 8	Termination

Technical Details

- Power supply:
24 V DC (-15% to +20%).
- Power consumption:
Maximum power consumption is 300 mA @ 24 V DC.
Typical power consumption: 150 mA @ 24 V DC.
- Surrounding temperature
70 degrees C @ 225 mA @ 24 V DC.
- Protective Earth (PE):
Internal connection to PE via DIN-rail or, if the DIN-rail can not be used, via the power connector.
Note: Make sure the DIN-rail is properly connected to PE.

For maintenance and support, contact the HMS support department.
Contact information is available at the support pages on www.anybus.com.

Further information and documents about this product can be found at the product pages on www.anybus.com.

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