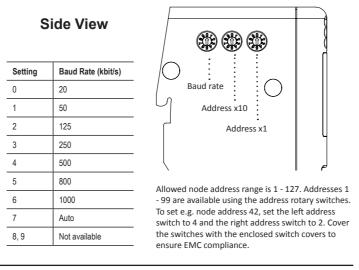
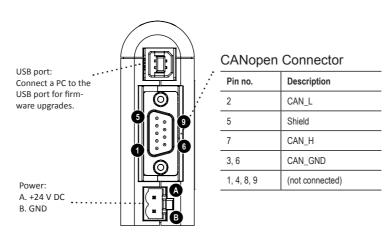
Anybus X-gateway CANopen - Modbus-TCP INSTALLATION SHEET

20	Module Front			LED Indicators		
	\bigcirc			LED no	Indication	Meaning
	Module Status Link Activity 1 CANopen Subnet Status	3 4	Network Status Link Activity 2 Device Status	1 (Module Status)	Off Green Flashing green (1 Hz) Flashing red (1 Hz) Flashing red (2 Hz) Flashing red (4 Hz) Red	Not initialized Initialized, normal operation IP address not set by on-board switches Invalid MAC address (internal error) Failed to load Ethernet configuration from FLASH Internal error (fatal) Duplicate IP address detected
			Device Status	2 (Network Status)	Flashing green	Indicates the number of Modbus-TCP connections (each connection is represented by as a single green flash)
				3 (Link activity 1) 4 (Link activity 2)	Off Flashing green	No link sensed on port 1/2 Activity, receiving/transmitting Ethernet packets at 100 Mbos
	Ethernet Port 1				Flashing yellow	Activity, receiving/transmitting Ethernet packets at 10 Mbps
	\bigcirc			5 (CANopen Subnet Status) ⁽	Off Flickering green/red Blinking green Single flash, green Green Blinking red Single flash, red Double flash, red Triple flash, red	Power off The LSS services are in progress Pre-operational state Stopped state Operational state Configuration error Warning limit reached Error control event Sync error
	Ethernet Connector				Quadruple flash, red Red	Data communication timeout Bus off
		Pin no	Description	6 (Device Status)	Off Single flash, green	Power off Bootup
HMS Industrial Networks AB		1	TD+		Green Single flash, red	Running Initialization error
		2	TD-		Double flash, red Triple flash, red	Timeout Hardware failure
Web: www.anybus.com Tel: +46 35 172900		6	RD+		Quadruple flash, red Red	General error Fatal error
E-mail: info@hms.se	1 8 0 KD- 4, 5, 7, 8 (reserved)			 This LED shows the status of the CANopen subnet that is controlled by the X-Gateway CANopen. 		
SP118, rev 2.00, Apr 2012. AB7308. www.anybus.com						



Bottom View



Accessories Checklist

The following items are required for installation:

CANopen:

- CANopen configuration tool (available at www.anybus.com)
- CANopen adapter for configuration tool (not included)
- CANopen cable (not included)
- EDS file, available at www.anybus.com

Modbus TCP Interface:

- Ethernet cable and connector (not included)
- Configuration tool (not included)

Installation and Startup Summary

- Select baud rate and an unused node address for the interface. (Cover the switches with the enclosed switch covers.)
- Connect the gateway to the CANopen network.
- Install the EDS file in the CANopen configuration tool.
- Power up and (if required) configure the module.
- Restart the module after the CANopen interface has been configured.
- Connect the gateway to the Ethernet network.
- Power up and (if required) configure the module.

Please note that the module will start up as a CANopen slave. The module can be reconfigured as a CANopen master during configuration.

Technical Details

- Power supply: 24 V DC (-10% to +10%).
- Power consumption: Maximum power consumption is 250 mA @ 24 V DC. Typical power consumption: 100 mA @ 24 V DC.
- Protective Earth (PE): Internal connection to PE via DIN-rail.
 Note: Make sure the DIN-rail is properly connected to PE.

CANopen Support

Technical support regarding the CANopen fieldbus system should be addressed to CAN in Automation (CiA). Online: www.can-cia.org

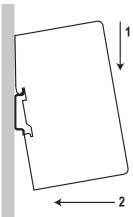
Modbus TCP Support

Technical questions regarding the Modbus-TCP fieldbus system should be addressed to the Modbus IDA Organization. Online: modbus-ida.org

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

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

DIN-rail Mounting



→ 2

To snap the gateway on, first press it downwards (1) to compress the spring in the DIN-rail mechanism, then push it against the DIN-rail as to make it snap on (2).

To snap the gateway off, push it downwards (1) and pull it out from the DIN-rail (2), as to make it snap off from the DIN-rail.

Additional Installation and Operating Instructions

Supply voltage: The X-gateway requires a regulated 24 V (21.6 V to 26.4 V) DC power source.

Field wiring terminal markings (wire type (Cu only, 14-30AWG) "Use 60/75 or 75°C copper (CU) wire only" Terminal tightening torque (5-7 lb-in (0.5 - 0.8 Nm)).

Use in Overvoltage Category I Pollution Degree 2 Environment.

Install in an enclosure considered representative of the intended use. To comply with ATEX directives, the equipment must be installed within an IP54 enclosure and must be installed with a transient suppressor on the supply that does not exceed 140% (33.6 V DC) of the nominal rated supply voltage.

Operating temperature/Surrounding temperature: -25 to +55 degrees C @ 250 mA @ 24 V DC.

Maximum surface temperature: 135 degrees C.

Pressure: 850 - 1050 millibar.

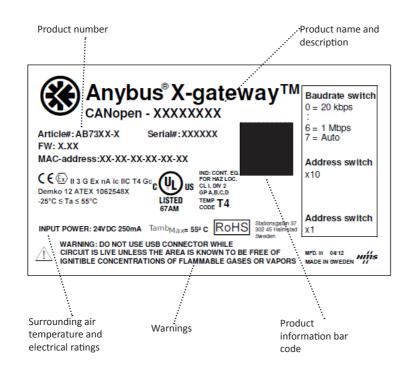
This product is designed to safely operate in class I, division 2 Hazardous location according to ANSI/ISA 12.12.01-2011 and category 3, zone 2 according to EN 60079-0, EN 60079-11, and EN 60079-15.

SUITABLE FOR USE IN CLASS I, DIVISION 2, GROUPS A, B, C AND D HAZ-ARDOUS LOCATIONS, OR NONHAZARDOUS LOCATIONS ONLY.

Warnings

- WARNING EXPLOSION HAZARD SUBSTITION OF ANY COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2.
- WARNING EXPLOSION HAZARD WHEN IN HAZ-ARDOUS LOCATIONS, TURN OFF POWER BEFORE REPLACING OR WIRING MODULES.
- WARNING EXPLOSION HAZARD DO NOT DIS-CONNECT EQUIPMENT WHILE THE CURCUIT IS LIVE OR UNLESS THE AREA IS KNOWN TO BE FREE OF IGNITABLE CONCENTRATIONS.
- WARNING EXPLOSION HAZARD THE USB CON-NECTOR IS NOT FOR USE IN HAZARDOUS LOCA-TIONS AND FOR TEMPORARY CONNECTION ONLY. DO NOT USE, CONNECT OR DISCONNECT UNLESS THE AREA IS KNOWN TO BE NONHAZARDOUS. CONNECTION OR DISCONNECTION IN AN EXPLO-SIVE ATMOSPHERE COULD RESULT IN AN EXPLO-SION.
- WARNING INSTALL IN AN ENCLOSURE CON-SIDERED REPRESENTATIVE OF THE INTENDED USE. TO COMPLY WITH ATEX DIRECTIVES, THE EQUIPMENT MUST BE INSTALLED WITHIN AN IP54 ENCLOSURE AND MUST BE INSTALLED WITH A TRANSIENT SUPPRESSOR ON THE SUPPLY THAT DOES NOT EXCEED 140% (33.6 V DC) OF THE NOMINAL RATED SUPPLY VOLTAGE.

Label Markings



UL Certification



Atex Certification

EX nA ic IIC T4 Gc



II 3 G

DEMKO 12 ATEX 1062548X

EMC Compliance (CE)



This product is in accordance with the EMC directive 2004/108/EC through conformance with the following standards:

 EN 61000-6-4 (2007)
 Emission standard for industrial environment EN 55016-2-3, Class A (2006)

 EN 61000-6-2 (2005) Immunity for industrial environment EN 61000-4-2 (2009) EN 61000-4-3 (2006) EN 61000-4-4 (2004) EN 61000-4-5 (2005) EN 61000-4-6 (2007)

HMS Industrial Networks AB Stationsgatan 37 302 45 Halmstad Sweden



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