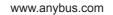
Anybus X-gateway CANopen - PROFINET INSTALLATION SHEET



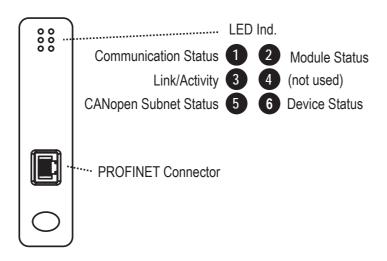
HMS Industrial Networks AB Web: www.anybus.com Tel: +46 35 172900

SP1197, rev 2.00, Apr 2012. AB7307.

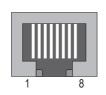
E-mail: info@hms.se



Module Front



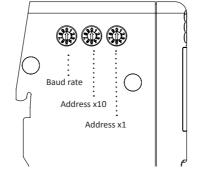
Network Access Port



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

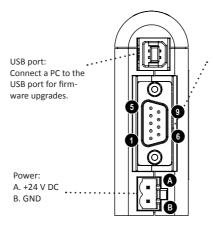
Side View

Setting	etting Baud Rate (kbit/s	
0	20	
1	50	
2	125	
3	250	
4	500	
5	800	
6	1000	
7	Auto	
8, 9	Not available	



Allowed node address range is 1 - 127. Addresses 1 - 99 are available using the address rotary switches. To set e.g. node address 42, set the left address switch to 4 and the right address switch to 2. Cover the switches with the enclosed switch covers to ensure EMC compliance.

Bottom View



CANopen Connector

Description	
CAN_L	
Shield	
CAN_H	
CAN_GND	
(not connected)	

LED Indicators

LED no	Indication	Meaning
1 (Communication Status)	Off Green Flashing green	Not online Online, connection with IO established, IO control ler in run state Online, connection with IO established, IO control ler in stop state
2 (Module status)	Off Green Single flash, green Double flash, green Single flash, red Triple flash, red Quadruple flash, red	Module initialized Module initialized, no errors Diagnostics available Used by engineering tool to identify the module Configuration error No station name or no IP address assigned Failed to initialize PROFINET IO object or no MAC address
3 (Link/Activitiy)	Off Green Flashing green	No link Link established Packet is recieved or transmitted
4 (not used)	-	
5 (CANopen Subnet Status) ¹	Off Flickering green/red Blinking green Single flash, green Green Blinking red Single flash, red Double flash, red Triple flash, red Quadruple flash, red 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 Data communication timeout Bus off
6 (Device Status)	Off Single flash, green Green Single flash, red Double flash, red Triple flash, red Quadruple flash, red Red	Power off Bootup Running Initialization error Timeout Hardware failure General error Fatal error

^{1.} This LED shows the status of the CANopen subnet that is controlled by the

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

PROFINET IO Interface:

- Suitable LAN cable (not included)
- PROFINET configuration tool (not included)
- GSD file, available at www.anybus.com

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 PROFINET network.
- Install the GSD file in the PROFINET configuration tool,
- 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

PROFINET IO Support

Technical questions regarding the PROFINET IO fieldbus system should be addressed to your local PROFINET user group. Online: www.profibus.org

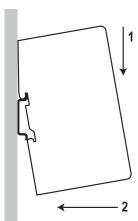
For maintenance and support, contact the HMS support department. Contact information is available at the support pages at www.anybus.com.

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

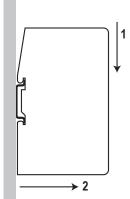
X-Gateway CANopen.

Anybus X-gateway CANopen INSTALLATION SHEET

DIN-rail Mounting



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.

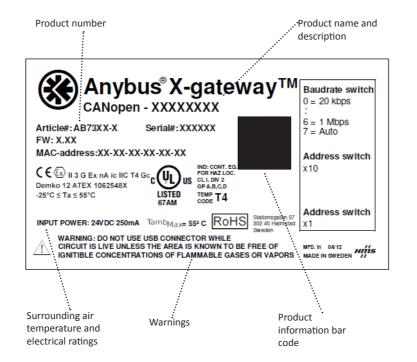
Maximum surface temperature: 135 degrees C.

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.

Label Markings



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 CONNECTOR IS NOT FOR USE IN HAZARDOUS LOCATIONS AND FOR TEMPORARY CONNECTION ONLY.
 DO NOT USE, CONNECT OR DISCONNECT UNLESS THE AREA IS KNOWN TO BE NONHAZARDOUS.
 CONNECTION OR DISCONNECTION IN AN EXPLOSIVE ATMOSPHERE COULD RESULT IN AN EXPLOSION.
- 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.

UL Certification



IND: CONT. EQ.
FOR HAZ LOC.
CL I, DIV 2
GP A,B,C,D
TEMP
CODE T4
E203225

LISTED 67AM

Atex Certification

EX nA ic IIC T4 Gc



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.