

Anybus Communicator CAN - PROFINET
INSTALLATION SHEET



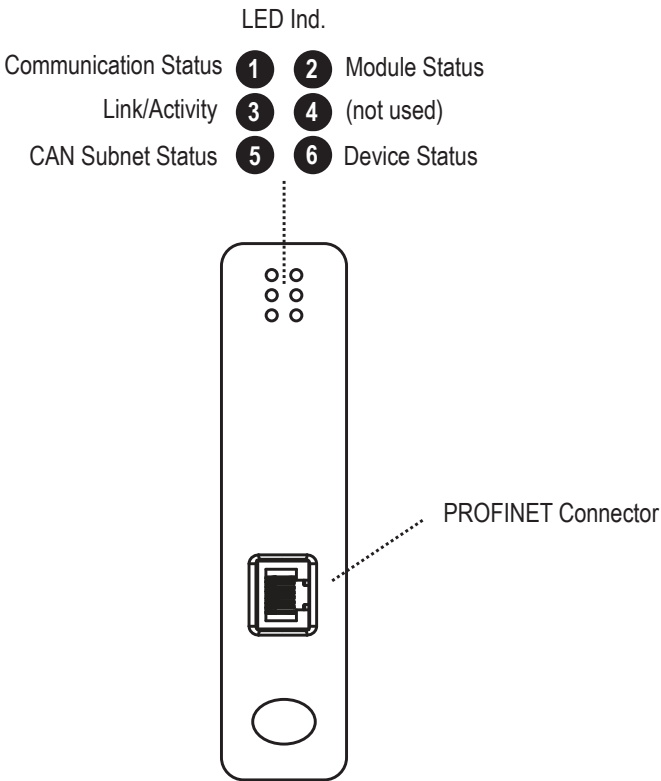
HMS Industrial Networks AB
Web: www.anybus.com
Tel: +46 35 172900
E-mail: info@hms.se



SP1312, rev 2.00, Apr 2012, AB7317

www.anybus.com

Module Front



LED Indicators

LED no	Indication	Meaning
1 (Communication Status)	Off	Offline (no connection with IO Controller)
	Green	Online, Run (connection with IO Controller established, IO Controller is in RUN state)
2 (Module Satus)	Single flash, green	Online, STOP (connection with IO Controller established, IO Controller is in STOP state)
	Off	No power or not initialized
	Green	Initialized, no error
	Single flash, green	Diagnostic data available
	Double flash, green	Blink. Used to identify the device
	Single flash, red	Configuration error
3 (Link/Activity)	Triple flash, red	No Station Name or no IP address assigned
	Quadruple flash, red	Internal error
	Off	No link established
4 (not used)	Green	Link established
	Flashing green	Exchanging packets
	Flashing green	Exchanging packets
5 (CAN Subnet Status)	Off	Power off/no CAN communication
	Green	Running with no transaction errors/timeout
	Flashing red	Transaction error/timeout or subnetwork stopped
	Red	Fatal error
6 (Device Status)	Off	Power off/initializing
	Alternating red/green	Invalid or missing configuration
	Green	Run
	Flashing green	Idle
	Red	Fatal error

Accessories Checklist

The following items are required for installation:

- Anybus Configuration Manager - Communicator CAN (available at www.anybus.com)
- CAN cable (included D-sub can be used)
- USB cable (type B) for configuration download
- LAN cable (not included)

PROFINET Notes:

- A GSD file for the PROFINET IO interface of the Communicator is available for download from the support pages at www.anybus.com.
- Please refer to the manual for information about how to set the IP address and the Station Name of the module.

Installation and Startup Summary

- Build the configuration in the Anybus Configuration Manager.
- Mount the Communicator at its proper position.
- Connect the USB, LAN and CAN cables (if needed, use cables with terminations or add terminations).
- Power up the module and download the configuration.
- Remove the USB cable.

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.

PROFINET Support

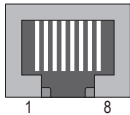
Technical questions regarding the PROFINET fieldbus system should be addressed to your local PROFINET user group.

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.

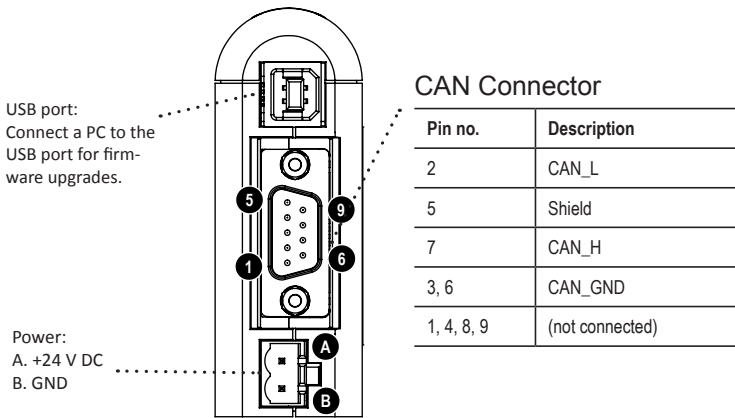
Network Access Port



Pin no	Description
1	TD+
2	TD-
3	RD+
6	RD-
4, 5, 7, 8	Connect to chassis ground (PE)

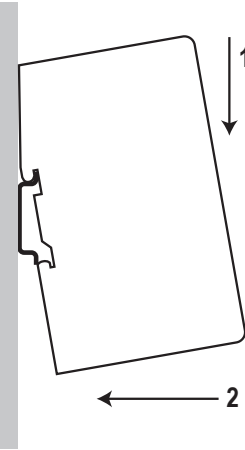
Note: All nodes in a PROFINET network have to share chassis ground connection. To ensure this, pins 4, 5, 7 and 8 have to be connected to the chassis ground.

Bottom View

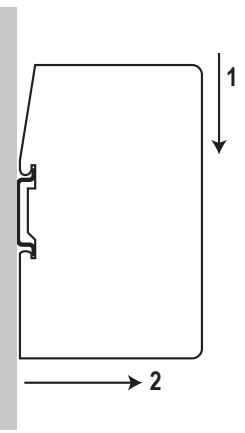


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DIN-rail Mounting



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.

Warnings

- **WARNING - EXPLOSION HAZARD - SUBSTITUTION 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.**

UL Certification



LISTED 67AM

Atex Certification

EX nA ic IIC T4 Gc



DEMKO 12 ATEX 1062548X

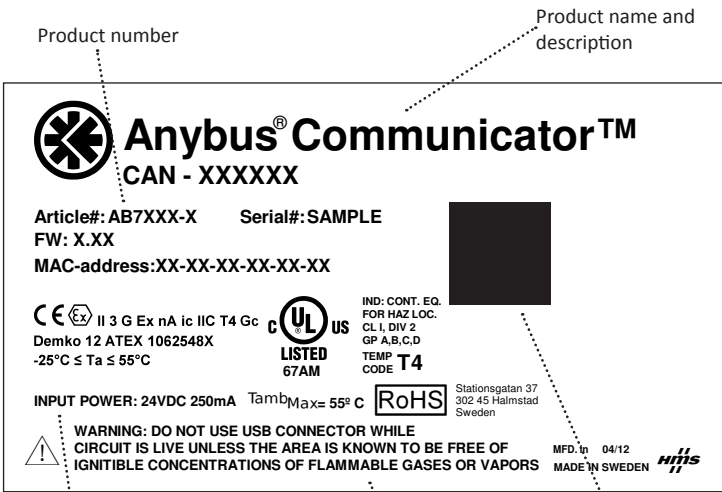
EMC Compliance (CE)



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)

Label Markings



Surrounding air temperature and electrical ratings

Warnings

Product information bar code

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.