

Anybus® Communicator™ CAN - ControlNet™ INSTALLATION SHEET

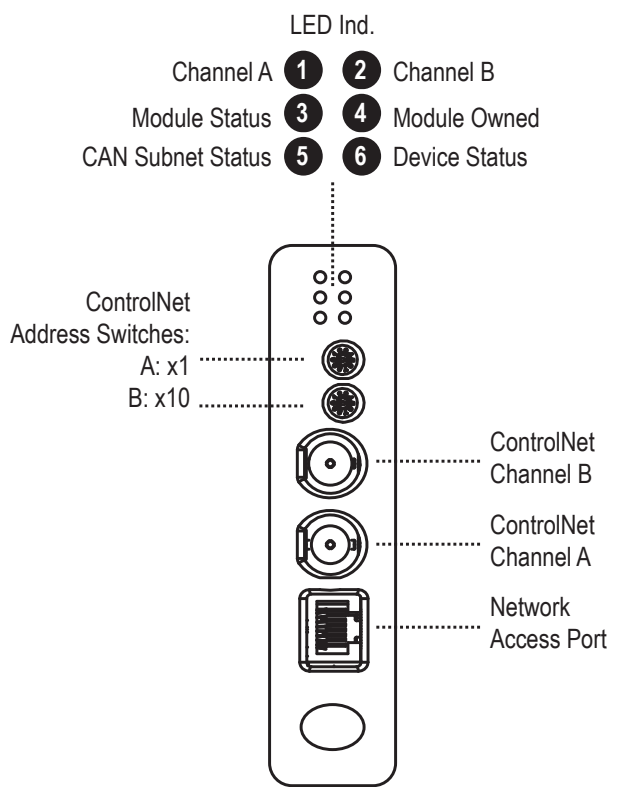


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SP1309, Rev 2.10, AB7314 www.anybus.com

Module Front



LED Indicators

LED no	Indication	Meaning
1 (Channel A) AND 2 (Channel B)	Off Red Alternating red/green Flashing red	Module not initialized Fault, module must be restarted or repaired Bus controller selftest Incorrect node configuration, e.g. duplicate Mac ID
1 (Channel A) OR 2 (Channel B)	Off Green Flashing green Flashing red Flashing red/green	Channel disabled (depends on network configuration) Normal operation of channel Temporary error or node not configured to go online Media fault or no other nodes on the network Incorrect network configuration
3 (Module Status)	Flashing green Green Flashing red Red	Waiting for initialization Initialized Minor fault, recoverable Major fault, unrecoverable
4 (Module Owned)	Off Green	No connection has been opened A connection has been opened towards the module
5 (CAN Subnet Status)	Off Green Flashing red Red	Power off/no CAN communication Running with no transaction errors/timeout Transaction error/timeout or subnetwork stopped Fatal error
6 (Device Status)	Off Alternating red/green Green Flashing green Red	Power off/initializing Invalid or missing configuration Run Idle 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
 - ControlNet cable (not included)

ControlNet Note:

- An EDS file for the ControlNet interface of the Communicator is available for download from the support pages at www.anybus.com.

Installation and Startup Summary

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

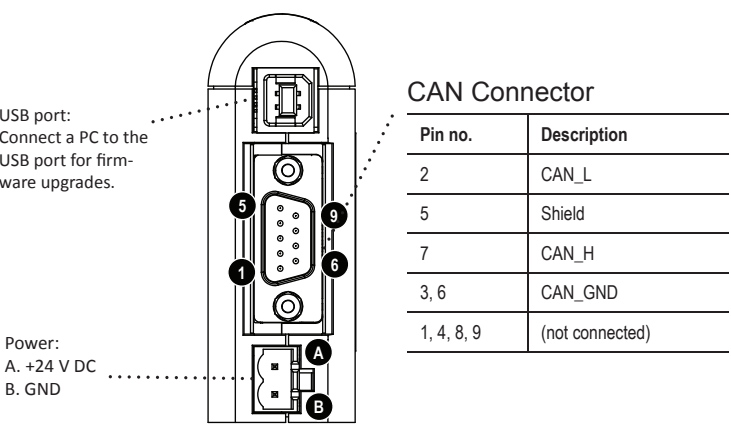
Network Access Port

Pin no	Signal	Description
1	GND	Signal ground
3	Tx_H	Transmit Data, positive
4	Tx_L	Transmit Data, negative
5	Rx_L	Receive Data, negative
6	Rx_H	Receive Data, positive
8	Shield	Connected to PE
2, 7	-	(not connected)

ControlNet Address Switches

Rotary switch	Meaning
A	Address x1
B	Address x10

Bottom View



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.

ControlNet Support

Technical questions regarding the ControlNet fieldbus system should be addressed to ODVA.

www.odva.org

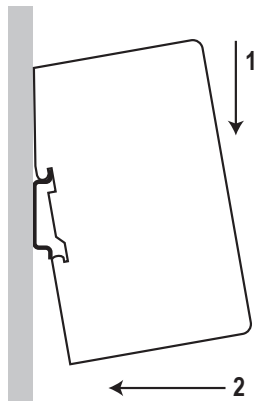
ODVA™ and ControlNet™ are trademarks of ODVA, Inc.

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

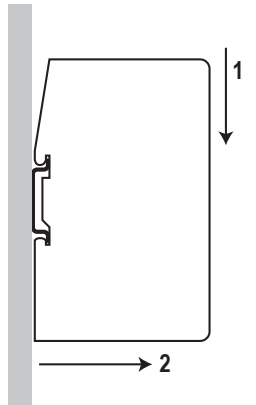
Further information and documents about this product can be found at the product pages on www.anybus.com.

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DIN Rail Mounting



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



To dismount the gateway, push it downwards (1) and pull it out from the rail (2).

Additional Installation and Operating Instructions

This equipment requires a regulated 24 V (21.6 V to 26.4 V) DC power source

Field wiring terminal markings (wire type (Cu only, 14-30 AWG))
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 conforming to EN 60664-1.

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

Maximum surface temperature: 135 °C

Pressure: 850–1050 millibar (85–105 kPa)

This product is designed to safely operate in class I, division 2 Hazardous location according to ANSI/ISA 12.12.01-2013 and category 3, zone 2 according to EN 60079-0:2012 and EN 60079-15:2010.

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

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.

Warnings

- **WARNING - EXPLOSION HAZARD - SUBSTITUTION OF ANY COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2.**
- **WARNING - EXPLOSION HAZARD - WHEN IN HAZARDOUS LOCATIONS, TURN OFF POWER BEFORE REPLACING OR WIRING MODULES.**
- **WARNING - EXPLOSION HAZARD - DO NOT DISCONNECT EQUIPMENT WHILE THE CIRCUIT 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 CONSIDERED REPRESENTATIVE OF THE INTENDED USE.**

UL Certification



LISTED 67AM

ATEX Certification

EX nA ic IIC T4 Gc



DEMKO 12 ATEX 1062548X

Attention!

- **ATTENTION – RISQUE D'EXPLOSION – LE REMPLACEMENT DE TOUT COMPOSANTS INVALIDE LA CERTIFICATION CLASS I, DIVISION 2.**
- **ATTENTION – RISQUE D'EXPLOSION – EN ZONE EXPLOSIVE, VEUILLEZ COUPER L'ALIMENTATION ÉLECTRIQUE AVANT LE REMPLACEMENT OU LE RACCORDEMENT DES MODULES.**
- **ATTENTION – RISQUE D'EXPLOSION – NE PAS DÉCONNECTER L'ÉQUIPEMENT TANT QUE L'ALIMENTATION EST TOUJOURS PRÉSENTE OU QUE LE PRODUIT EST TOUJOURS EN ZONE EXPLOSIVE ACTIVE.**
- **ATTENTION – RISQUE D'EXPLOSION – LE CONNECTEUR USB N'EST PAS FAIT POUR UN USAGE EN MILIEU EXPLOSIF. NE PAS, BRANCHER ET DEBRANCHER SANS SAVOIR SI LA ZONE N'EST PAS IDENTIFIÉE NON EXPLOSIVE. BRANCHER OU DEBRANCHER EN ZONE EXPLOSIVE PEUT ENTRAÎNER UNE EXPLOSION.**
- **AVERTISSEMENT – INSTALLER DANS UNE ARMOIRE VERROUILLEE VALIDANT L'ACTE VOLONTAIRE D'UTILISATION.**

EMC Compliance (CE)



This product is in accordance with the EMC directive 2014/30/EU through conformance with the following standards:

- **EN 61000-6-4 (2007)**
Emission standard for industrial environment
EN 55016-2-3, Class A (2010)
EN 55022, Class A (2011)
- **EN 61000-6-2 (2005)**
Immunity for industrial environment
EN 61000-4-2 (2009)
EN 61000-4-3 (2006)
EN 61000-4-4 (2012)
EN 61000-4-5 (2014)
EN 61000-4-6 (2014)



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