



## Anybus Communicator CAN - PROFIBUS

Integrate your CAN-based industrial devices and equipment to a PROFIBUS control system without the need for any changes to the device. Just connect, configure and you're done!

The Anybus Communicator is a proven and trusted protocol converter gateway that connects non-industrial devices with a CAN-based protocol to PROFIBUS. The gateway performs an intelligent protocol conversion and presents the CAN data to the Master PLC/Controller as easily processed I/O data.

The Communicator is slim stand-alone gateway designed for IP20 and DIN-rail mounting, requiring a 24-volt power supply. The Communicator is conformance tested to current PROFIBUS specifications guaranteeing network compatibility.

### TYPICAL CAN APPLICATIONS

Typical serial applications include variable frequency drives, sensors, actuators, human machine interfaces, barcode readers, RFID readers and industrial scales among others.



### FEATURES AND BENEFITS

- CAN protocol converter gateways connecting CAN devices to fieldbus/Ethernet networks
- Support for custom CAN 1.0, 2.0A and 2.0B protocols
- Handles mixed Produce/Consume and Request/Response protocols and transactions
- No hardware or software changes needed to your devices
- No PLC code or function blocks required • Compatible with PLCs from all leading manufacturers
- Versions with Dual Port switched Ethernet allows for daisy chaining and eliminates the need for external switches
- High performance, fast throughput, max 5 ms
- Anybus Configuration Manager included for easy visual CAN frame building
- Dynamic transaction controlled by network master
- Global free technical support and consultancy
- See [www.anybus.com](http://www.anybus.com) for application notes and instruction videos on how to configure the gateway

### CAN CONFIGURATION - ANYBUS CONFIGURATION MANAGER

The Anybus Configuration Manager (ACM) is included with the purchase of the Anybus Communicator.

- Graphical CAN frame building support using several ready-made CAN functions.
- Can configure any CAN 2.0A or 2.0B based protocol (11 and 29 bit identifiers).
- Configures upto 128 transactions containing a total of 256 CAN frames
- Monitor/Modify function of process I/O data informing of CAN transaction status
- Diagnostic transaction Live List in the network I/O informing of CAN transaction status
- Multi-language support, supporting English, German, Spanish, Italian, French, Polish, Russian, Chinese and Japanese
- Handy Save/Load function allows for a completed configuration to be re-used for many other installations
- Password protection prevents unauthorized upload and download of configurations

### PROFIBUS INTERFACE FEATURES

- Complete PROFIBUS-DP slave according to IEC 61158
- Max 244 bytes of Input and 244 bytes of Output data - 416 bytes data length in total

- Automatic PROFIBUS baud rate detection (9600 bit / s - 12 Mbit / s)
- Supports PROFIBUS features: Sync and Freeze and Watchdog
- PROFIBUS uplink configuration via on-board switches or via .GSD file
- 1x D-sub 9-pin female PROFIBUS connector

**TECHNICAL SPECIFICATIONS****COMMUNICATOR CAN**

<b>Protocol</b>	Configurable CAN 1.0, 2.0A and 2.0B based protocols
<b>Baud rate</b>	20 kbit/s - 1 Mbit/s
<b>Physical standards</b>	CAN

**TECHNICAL DETAILS**

<b>Dimensions (L x W x H)</b>	120 x 75 x 27 mm 4,72 x 2,95 x 1,06"	
<b>Weight</b>	150 grams, 0.33 lb	
<b>Protection class</b>	IP20 Nema rating 1	
<b>Enclosure material</b>	PC ABS, UL 94	
<b>Installation position</b>	Any	
<b>Mounting</b>	DIN rail (35 * 7,5/15)	EN 50022

**CERTIFICATIONS**

<b>UL</b>	File number: E203225	UL 508 Ind. Cont. Eq.
<b>Hazardous Locations</b>	CLASS 1, DIVISION 2, GROUPS A, B, C AND D, T4	ANSI/ISA-12.12.01-2000
<b>CE</b>	2004/108/EC	EN <a href="#">61000-6-4</a> EN <a href="#">61000-6-2</a>
<b>ATEX</b>	Zone 2, Cat 3 (except Modbus RTU)	EN <a href="#">60079-11</a> EN <a href="#">60079-15</a>

**ELECTRICAL CHARACTERISTICS**

<b>Power</b>	24 VDC +/- 10 %
<b>Current consumption</b>	Max 300 mA, Typical 100 mA

**HARDWARE CHARACTERISTICS**

<b>Reverse voltage protection</b>	Yes	
<b>Short circuit protection</b>	Yes	
<b>Galvanic isolation on subnetwork</b>	Yes	EN 60950-1

**ENVIRONMENTAL CHARACTERISTICS**

<b>Operating temp</b>	-25 to 55 o C, -13 to 131 o F	IEC <a href="#">60068-2-1</a> IEC <a href="#">60068-2-2</a>
<b>Storage temp</b>	-40 to 85 o C, -40 to 185 o F	IEC <a href="#">60068-2-1</a> IEC <a href="#">60068-2-2</a>

<b>Relative Humidity</b>	5-95% non condensing	IEC <u>60068-2-30</u>
<b>Installation altitude</b>	Up to 2 000 m	

**IMMUNITY AND EMISSION FOR INDUSTRIAL ENVIRONMENT**

<b>Electrostatic discharge</b>	+/- 4 kV	EN <u>61000-4-2</u>
<b>Electro magnetic RF fields</b>	10 V/m 80 MHz - 1 GHz 3 V/m 1,4 GHz - 2,0 GHz 1 V/m 2,0 GHz - 2,7 GHz	EN <u>61000-4-3</u>
<b>Fast Transients</b>	+/- 1 kV	EN <u>61000-4-4</u>
<b>Surge protection</b>	+/- 1 kV	EN <u>61000-4-5</u>
<b>RF conducted interference</b>	10 V/rms	EN <u>61000-4-6</u>
<b>Emission (at 10 m)</b>	40 dB 30 MHz - 230 MHz 47 dB 30 MHz - 1 GHz	CISPR 16-2-3

File	Version	Size	Read online
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## Content of delivery

- Configuration Cable (RS232) Port
- Installation sheet
- Dsub with screw terminals for sub network

## Ordering Information

**ORDER CODE: AB7312****INCLUDED COMPONENTS:**

- Quick start documentation
- USB configuration cable is supplied with every single-piece Communicator shipment
- CAN D-sub connector is supplied with every single-piece Communicator shipment
- All configuration software available for download
- (Power supply not included)

**GUARANTEE:** 3 yearsFor purchasing instructions and terms and conditions, see: → [How to buy](#)

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