

## Anybus Communicator – CAN to PROFIBUS DP-V1

Item number: AB7312-B

The Anybus Communicator – CAN to PROFIBUS DP-V1 converts CAN protocols to PROFIBUS, enabling you to connect any CAN-based device or equipment to PROFIBUS control systems. Anybus Communicators ensure reliable, secure, high-speed data transfers between different industrial networks while being easy to use.



*A protocol converter that connects CAN devices to PROFIBUS control systems.*

### Features and benefits

- ✓ **No hardware or software changes needed**  
Integrate your CAN-based industrial devices and equipment to a PROFINET-IRT control system without the need for any changes to the device. Just connect, configure and you're done!
- ✓ **Compatible**  
Convert CANopen, or any custom CAN 1.0, 2.0A, or 2.0B protocol, in just a few minutes.
- ✓ **3-year warranty**  
The Communicator is designed to be robust and long-lasting. A 3-year guarantee is provided.
- ✓ **Convert proprietary protocols**  
Converts Produce/Consume and Request/Response protocols and transactions.
- ✓ **Daisy chaining**  
Versions with Dual Port switched Ethernet allow for daisy chaining and eliminate the need for external switches.
- ✓ **Easy integration**  
No code or function blocks needed
- ✓ **CAN frame building**  
Use the Anybus Configuration Manager for easy visual CAN frame building.
- ✓ **Slim hardware design**  
The Communicator is designed for IP20 and DIN-rail mounting, enabling you to install it with ease, close to connected devices, thereby reducing wiring requirements.
- ✓ **Any PLC**  
Compatible with PLCs from all leading manufacturers
- ✓ **Save & Load**  
The Save/Load function enables a completed configuration to be re-used for other installations.
- ✓ **Trusted partner**  
Anybus has a long history of working with all the major network organizations to ensure compliant, high-performing, and compatible products.
- ✓ **Life cycle management**  
HMS maintains every part of the Communicator, including network updates, throughout the product's lifecycle.

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General	
Net Width (mm)	27
Net Height (mm)	120
Net Depth (mm)	75
Net Weight (g)	300
Packed Width (mm)	15
Packed Height (mm)	6
Packed Depth (mm)	17
Packed Weight (g)	300
Operating Temperature °C Min	-25
Operating Temperature °C Max	55
Storage Temperature °C Min	-40
Storage Temperature °C Max	85
Current Consumption Type Value at Vcc Nom (mA)	100mA @ 24V DC
Current Consumption Max value at Vcc nom (mA)	250mA @ 24V DC
Input Voltage (V)	24V DC (-10% to +10%)
Power Connector	2-pin, 5.08 Phoenix plug connector
Isolation	TRUE
Mounting	DIN-rail (EN 50022 standard)
Housing Materials	Plastic

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## General

Packaging Material	Cardboard
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## Identification and Status

Product ID	AB7312-B
Country of Origin	Sweden
HS Code	8517620000
Export Control Classification Number (ECCN)	5A991.b.3
Supply Risk Factor ERP	Used in Volume 01

## Physical Features

Connectors / Input / Output	male 9-DSUB, 1x D-sub 9-pin female PROFIBUS connector
DIP & Rotary Switches	2x Rotary Address Node

## CAN Features

CAN Mode	Generic CAN
CAN Baud Rate	20 kBit/s to 1 Mbit/s

## CANopen Features

CANopen Mode	Generic CAN
CANopen Baud Rate	20 kBit/s to 1 Mbit/s
CANopen Supported Functionality	CAN standards 2.0A/2.0B; Byte swap; 128 CAN transactions; Produce / Consume; Cyclic, On data change, Single Shot, Trigger update modes;
CANopen Input Data Size	512 bytes
CANopen Output Data Size	512 bytes

## PROFIBUS Features

PROFIBUS Mode	Slave
PROFIBUS Supported Functionality	PROFIBUS-DP/DPV1 Slave functionality according to extensions of EN 50170; Acyclic Communication (DP-V1, Class 1 & 2); Acyclic User Parameter data / Diagnostics length - up to 237 bytes; Sync; Freeze; Watchdog
PROFIBUS Device Address	0-125
PROFIBUS Configuration File	GSD available

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## PROFIBUS Features

<b>PROFIBUS Baud Rate</b>	9600 bit/s - 12 Mbit/s
<b>PROFIBUS Input Data Size</b>	244 bytes (344 max tot in+out)
<b>PROFIBUS Output Data Size</b>	244 bytes (344 max tot in+out)

## Certifications and Standards

<b>Protection Class IP</b>	IP20
<b>Recycle / Disposal</b>	TRUE
<b>UL Information</b>	E214107: Ord.Loc UL508, CSA C22.2 NO. 142; E203225: Haz.Loc CL I DIV2 GP A,B,C,D T4, ANSI/ISA 12.12.01, CAN/CSA C22.2 No. 213, CAN/CSA C22.2 No. 142
<b>ATEX Information</b>	II 3 G Ex nA ic IIC T4 Gc, EN 60079-0; EN60079-15; EN60079-11
<b>Environment</b>	EN 61000-6-4, EN 55016-2-3 Class A, EN 55022 Class A, EN 61000-6-2, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6
<b>WEEE Category</b>	IT and telecommunications equipment