

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
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
Isolation	Yes



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General

Mounting	DIN-rail (EN 50022 standard)
Housing Materials	Plastic
Packaging Material	Cardboard

Identification and Status

Product ID	AB7312-B
Country of Origin	Sweden
HS Code	8517620000
Dual Usage	No
Export Control Classification Number (ECCN)	5A991.b.3

Physical Features

Connectors / Input / Output	male 9-DSUB;1x D-sub 9-pin female PROFIBUS connector
DIP & Rotary Switches	2x Rotary Address Node
Contains Battery	No

CAN Features

CAN Supported Functionality	CAN standards 2.0A/2.0B (11 and 29 bit identifiers); 128 CAN transactions (total 256 CAN frames) - Produce, Consume, Query/Response; Cyclic, On Data Change, Single Shot, Trigger Byte update modes; Data Word Swap option
CAN Mode	Generic CAN
CAN Baud Rate	20 kBit/s to 1 Mbit/s

PROFIBUS Features

PROFIBUS Mode	DP Device
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
PROFIBUS Baud Rate	9600 bit/s - 12 Mbit/s



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PROFIBUS Features

PROFIBUS Input Data Size	244 bytes (344 max tot in + out)
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PROFIBUS Output Data Size	244 bytes (344 max tot in + out)
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Certifications and Standards

Protection Class IP	IP20
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RoHS Compliant	Yes
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Recycle / Disposal	Yes
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CE	Yes
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FCC	No
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UL	Yes
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UL Information	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
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ATEX	Yes
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ATEX Information	II 3 G Ex nA ic IIC T4 Gc, EN 60079-0; EN60079-15; EN60079-11
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EMC	Yes
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Environment	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
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Waste Certification (WEEE)	Yes
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WEEE Category	IT and telecommunications equipment
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