

Anybus Communicator – Serial Master to PROFIBUS IO-Device ATEX

Item number: ABC3000EX-A

The Anybus Communicator Serial Master to PROFIBUS IO-Device ATEX enables you to connect any RS-232/485 device or equipment to PROFIBUS control systems. Anybus Communicators ensure reliable, secure, and high-speed data transfers between different industrial networks. Thanks to our intuitive web-based user interface, they're also incredibly easy to use.



A protocol converter that connects serial devices to PROFIBUS control systems

Features and benefits

- ✓ **Certified for hazardous locations**
The Communicator is certified for ATEX Zone 2 and UL hazardous location Class 1 Division 2.
- ✓ **Instant data transfer**
Instant data transfer lets you take advantage of high-speed industrial networks.
- ✓ **Intuitive user interface**
Use the intuitive web-based user interface to easily configure the Communicator via the drag-and-drop functionality or to analyze live data and generate support packages.
- ✓ **Optimized hardware design**
The Communicator has forward-facing ports and is designed for IP20 and DIN-rail mounting, enabling you to install it with ease, close to connected devices, thereby reducing wiring requirements.
- ✓ **5-year warranty**
Thanks to carefully selected industrial components the Communicator operates reliably in harsh environments, ensuring uptime and longevity. Our confidence in quality is reflected in a 5-year warranty.
- ✓ **High performance**
Powered by the award-winning NP40 network processor, it enables instant transfer of up to 1500 bytes (network dependent) between networks, totaling 3000 bytes.
- ✓ **Endian conversion**
The Communicator provides hardware-accelerated endian conversion (byte swap), saving processing time on the PLC.
- ✓ **Cybersecurity**
Despite advanced security, human error often causes breaches. Our Communicator's physical security switch can lock configurations and block web interface access, enhancing security.
- ✓ **Diagnostics**
The user interface displays real-time connection status and I/O data mapping for easy troubleshooting. Easily generate a support file containing all the necessary information.
- ✓ **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)	144
Net Depth (mm)	98
Net Weight (g)	150
Packed Width (mm)	12
Packed Height (mm)	2
Packed Depth (mm)	8
Packed Weight (g)	185
Operating Temperature °C Max	70
Storage Temperature °C Min	-40
Storage Temperature °C Max	85
Power Connector	3-pin, 5.08 Phoenix plug connector
Isolation	TRUE
Mounting	DIN-rail (EN 50022 standard)
Housing Materials	PC ABS, UL 94 VO
Packaging Material	Cardboard
Warranty (years)	5

Identification and Status

Product ID	ABC3000EX-A
Model Code	40-SER-PDP-A-EX

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Identification and Status

Country of Origin	Sweden
HS Code	8517620000
Export Control Classification Number (ECCN)	5A991.b.1

Physical Features

Push Buttons	Factory reset
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Modbus-RTU Features

Modbus-RTU Baud Rate	1200,1800,2400,4800,7200,9600,14400,19200,35700,38400,57600,115200,128000 bit/s
Modbus-RTU Input Data Size	1500 bytes
Modbus-RTU Output Data Size	1500 bytes

PROFIBUS Features

PROFIBUS Baud Rate	9600 bit/s - 12 Mbit/s
PROFIBUS Input Data Size	244 bytes
PROFIBUS Output Data Size	244 bytes

Serial Features

Baud Rate	1200,1800,2400,4800,7200,9600,14400,19200,35700,38400,57600,115200,128000 bit/s
Supported Functionality	RS-232; RS485; Standard Modbus RTU Master; Custom Request / Response commands; Custom Produce / Consume transactions; Trigger initiated transactions; 7 or 8 data bit; None, Odd, Even Parity; 1 or 2 stop bit; Clear/Freeze

Certifications and Standards

Protection Class IP	IP20
ATEX Information	II 3 G Ex ec IIC T4 Gc, EN IEC 60079-0, 60079-7, IEC 60664-1
Environment	EN 55016-2-3 Class A, EN 55032 Class A, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-7
WEEE Category	IT and telecommunications equipment