

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

- ✓ **Easily convert proprietary RS-232/485 protocols**
Convert RS-232/485 Request/Response or Produce/Consume protocol in just a few minutes. Use the drag-and-drop frame builder to build frames, insert/extract data, and handle complex variable frames.
- ✓ **Transfer 244 bytes to and from PROFIBUS controller (PLC)**
Transfer up to 244 bytes in each direction (488 bytes total). PROFIBUS DP device (slave) with automatic baud rate detection. Address setting via rotary switches or web interface. Includes a GSD file.
- ✓ **Instant data transfer**
The Communicator transfers data instantly between networks, with processing time so low you don't even need to count it, as it's in line with network jitter. Just add the cycle times of both networks to get the total transfer time.
- ✓ **Diagnostics and support**
The user interface shows connection status, allowing you to analyze serial traffic and monitor data going through the gateway. Monitor and control nodes via the Live List and Data Exchange Control features. Our global support team is ready to help if needed.
- ✓ **Secure and segment networks**
Secure boot blocks malware, while a security switch locks configurations to prevent unauthorized changes. Network segmentation is inherent in the design, as each network is run separately, with only configured data transferred between networks.
- ✓ **Connect up to 32 Modbus RTU Servers (slaves)**
Easily handles demanding applications thanks to support for up to 32 servers, 150 Modbus commands, a selectable 3 ms serial update rate, a graphical transaction builder, controller/PLC triggers and inter-node data exchange.
- ✓ **EX certified**
Certified for ATEX Zone 2 and UL Hazardous Location Class 1 Division 2 for use in areas where explosive gas may exist.
- ✓ **Configure via web interface over Ethernet**
With a graphical and responsive web interface, configuration is a breeze. In addition, there's no software to install and the dedicated Ethernet configuration port makes it easy to get started.
- ✓ **Drop-in replacement**
Already using a Communicator Classic? Don't worry, with legacy mode you can import your current serial configuration and continue using the same configuration in your controller/PLC.
- ✓ **Built for factory floors**
The Gateway is made with industrial-grade components, verified to meet industry standards, and backed by a 5-year warranty. Its slim form factor, front-facing ports, and cable tie make DIN-rail installation easy.

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General

Net Width (mm)	27
Net Height (mm)	144
Net Depth (mm)	98
Net Weight (g)	150
Packed Width (mm)	35
Packed Height (mm)	170
Packed Depth (mm)	115
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
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
Isolation	TRUE
Content of Delivery	Gateway, power connector, start-up guide, compliance information sheet
Mounting	DIN-rail (EN 50022 standard)
Housing Materials	PC ABS, UL 94 VO
Packaging Material	Cardboard

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General

Warranty (years)	5
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Identification and Status

Product ID	ABC3000EX-A
Model Code	40-SER-PDP-A-EX
Country of Origin	Sweden
HS Code	8517620000
Dual Usage	No

Physical Features

Push Buttons	Factory reset
Contains Battery	No

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 Mode	DP Device
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
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Certifications and Standards	
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