



# Anybus Communicator - PROFIBUS

**Order Code: ABC3000**

**Serial Master – PROFIBUS IO-Device**

Integrate your serial RS-232/485 based industrial devices and equipment to PROFIBUS control systems without any changes to the device. Just connect, configure and you're done.

The Anybus Communicator can transfer large amounts of data, is fast to configure thanks to its' drag and drop web interface and is built on trusted Anybus technology.

## CONVERT ALMOST ANY TYPE OF SERIAL PROTOCOL

The Communicator can convert both standard serial protocols such as Modbus RTU and proprietary serial request/response or produce/consume based protocols.

## TYPICAL SERIAL APPLICATIONS

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

## FEATURES & BENEFITS

- Transfer up to 244 bytes of data in both directions
- Convert standard and proprietary RS-232/485 protocols
- Web-based drag and drop configuration interface
- -25 to +70 °C industrial temperature range
- Powered by award winning NP40 network processor

### Transfer up to 244 bytes of data

Demand for more data is constantly growing and the Communicator has been equipped to handle the challenge. It can transfer 244 bytes from the PLC to the Gateway and 244 bytes from the gateway to the PLC, 488 bytes in total. Support for up to 150 Modbus commands means even complex configurations with multiple nodes can be handled with ease.

### Drag and drop web interface

To make sure you spend as little time as possible configuring the Communicator, we have built a graphical and responsive web-based user interface. No software needed to be installed, just open your favorite web browser and get started.

### Industrial temperature range

An industrial operating temperature range of -25 to +70 °C ensures the Communicator can excel under harsh conditions.

### Powered by proven NP40 technology

The Communicator is built on the award-winning and proven Anybus NP40 network processor. With hundreds of thousands NP40:s used in Embedded applications across the world, it is the industry benchmark for reliable industrial communication.

### Security switch

Even with sophisticated security measures, human error is still the main cause of security breaches. To simplify security, we added a physical security switch on the Communicator. It locks your configuration and prevents any access to the web-based configuration interface. Just flip it when your configuration is done and watch the padlock LED on the product light up.

### Ethernet configuration port

With a dedicated Ethernet configuration port you don't need any special configuration cable. In addition, it is easy to connect to the gateway to monitor network traffic.



**Optimized for DIN-rail mounting**

The slim form factor, front facing network connectors, screw in serial cable connector and the neat cable tie ensure it is fast and simple to install and connect the Communicator.

**Diagnostics**

When opening the Communicator web interface you immediately see the status of the PROFINET connection and serial connection. You can even see the status of individual serial nodes. It's also equipped with a serial log and an event log for further analysis.

**Support**

Sometimes you run into a problem where you need help. That's why we have included a support page in the user interface with contact information. There is even a button to generate a support package to simplify troubleshooting.

**SERIAL FEATURES**

- Selectable RS-232/485 interface
- 3 ms serial update rate (selectable)
- Visual I/O data map to map serial data to industrial network
- Drag and drop frame builder for custom protocols, no programming required
- Trigger serial transactions from control system with triggers
- Transfer data between serial nodes with general data area
- Monitor and control serial nodes from control system with live list and data exchange control
- Ability to import Communicator Classic configuration file

**PROFIBUS FEATURES**

- PROFIBUS DPV1 & DPV0 Device (slave)
- Transfer up to 244 bytes to and from PROFIBUS (488 bytes total)
- Automatic baud rate detection up to 12 Mbit/s
- PROFIBUS slave address setting via on-board rotary switches or web interface
- Supports Sync and Freeze and Watchdog
- Supports I&M 0-3
- 1x D-sub 9-pin female PROFIBUS connector
- GSD file available

## Communicator Web UI Intro



### TECHNICAL SPECIFICATIONS

#### GENERAL

<b>Dimensions (L x W x H) with serial and power connector</b>	98 x 27 x 144 mm 3.85 x 1.06 x 5,67 in
<b>Weight</b>	150 grams, 0.33 lb
<b>Buttons and switches</b>	Reset button and security switch
<b>LEDs</b>	Gateway, PROFIBUS and Serial status
<b>IP rating</b>	IP20
<b>Housing material</b>	PC ABS, UL 94 VO
<b>Mounting</b>	DIN rail (35 * 7,5/15)

**ENVIRONMENT**

<b>Operating temperature</b>	-25 to 70° C, -13 to 158° F
<b>Storage temperature</b>	-40 to 85° C, -40 to 185° F
<b>Relative humidity</b>	0-95% non condensing
<b>Installation altitude</b>	Up to 2 000 m

**POWER**

<b>Input voltage</b>	12 - 30 VDC
<b>Current consumption</b>	Typical: 160 mA @ 24V Max: 400 mA @ 12V
<b>Power connector</b>	3-pin plug with screw terminal
<b>Protection</b>	Reverse voltage protection and short circuit protection

**PROFIBUS**

<b>Mode</b>	PROFIBUS DPV1 Device (slave)
<b>Input data size</b>	244 bytes
<b>Output data size</b>	244 bytes
<b>Baude rate</b>	Automatic baud rate detection up to 12 Mbit/s
<b>Rotary switches</b>	PROFIBUS slave address setting via onboard rotary switches or web interface
<b>Features</b>	Supports Sync and Freeze and Watchdog
<b>I&amp;M records</b>	Manufacturer data (I&M0), Tag information (I&M1), Date/Time (I&M2), Description (I&M3)
<b>Connector</b>	1x D-sub 9-pin female PROFIBUS connector
<b>GSD</b>	GSD file available

**CERTIFICATIONS AND STANDARDS**

<b>UL</b>	cULUSfile number E214107
<b>CE</b>	2014/30/EU
<b>KC</b>	R-R-ABJ-Communicator
<b>EMC</b>	EN <u>61000-6-2</u> EN <u>61000-4-2</u> EN <u>61000-4-3</u> EN <u>61000-4-4</u> EN <u>61000-4-5</u> EN <u>61000-4-6</u> EN <u>61000-6-4</u> EN 55032

<b>Environment</b>	IEC <u>60068-2-1</u> Ab IEC <u>60068-2-2</u> Bb IEC <u>60068-2-1</u> Ab IEC <u>60068-2-2</u> Bb IEC <u>60068-2-14</u> Nb IEC <u>60068-2-30</u> Db IEC <u>60068-2-78</u> Cab IEC <u>60068-2-78</u> Cab
<b>Vibration and shock</b>	IEC <u>60068-2-27</u> IEC <u>60068-2-6</u>
<b>Waste certification</b>	WEE

**CONFIGURATION**

<b>Configuration software</b>	Web based configuration
<b>Configuration ports</b>	Dedicated 10/100 Mbit RJ45 Ethernet configuration port and Ethernet ports

**SECURITY**

<b>Secure boot</b>	Ensures software authenticity
<b>Security switch</b>	Physical switch that enable/disable access to the web based configuration interface

**PRODUCT PACKAGING**

<b>Content</b>	Gateway, power connector, start-up guide, compliance information sheet
<b>Box material</b>	Cardboard

**MEAN TIME BETWEEN FAILURE**

<b>MTBF</b>	> <u>1500000</u> h, Telcordia Method I Case 3 at 30° C
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File	Version	Size	Read online
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**Ordering information**

<b>Order Code</b>	ABC3000
<b>Included components</b>	Anybus Communicator - PROFIBUS

3 year guarantee. For purchasing instructions and terms and conditions, see: [How to buy](#).

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