# Anybus Communicator – PROFINET IO Device to PROFIBUS DP Device

**Item number: ABC4023-A**

The Anybus Communicator PROFINET IO Device to PROFIBUS DP Device enables you to connect any PROFINET IO control system to any PROFIBUS DP control system. Anybus Communicators ensure reliable, secure, 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 PROFINET IO and PROFIBUS DP control systems*

# Features and benefits

✓ **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, export log files, and generate support packages.

✓ **High performance**

Powered by the award-winning NP40 network processor and high-end components, the Communicator meets the constantly growing demand for more data to be transferred faster.

✓ **Instant data transfer**

Instant data transfer lets you take advantage of high-speed industrial networks, as the Communicator provides hardware-accelerated endian conversion (byte swap), saving processing time on the PLC.

✓ **Ensures uptime**

Thanks to carefully selected industrial components the Communicator operates reliably in harsh industrial environments ensuring uptime and a long life.

✓ **Brand Labeling**

Pre-configure the Communicator and customize the hardware and user interface with your colors and logos.

✓ **Cybersecurity**

The secure boot protects against malware, while a security switch locks configurations to prevent unauthorized changes. Ports used in production are disabled to add another layer of security.

✓ **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**

The Communicator is made to be durable and have a long life. We're so confident in its quality that we provide a 5-year warranty.

✓ **Instant 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.

# Anybus Communicator – PROFINET IO Device to PROFIBUS DP Device

## 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 Min** | -25 |
| **Operating Temperature °C Max** | 70 |
| **Storage Temperature °C Min** | -40 |
| **Storage Temperature °C Max** | 85 |
| **Current Consumption Type Value at Vcc Nom (mA)** | 90mA @ 24V DC (2.2W) |
| **Current Consumption Max value at Vcc nom (mA)** | 125mA @24V DC (3W) |
| **Input Voltage (V)** | 12-30V DC |
| **Power Connector** | 3-pin, 5.08 Phoenix plug connector |
| **Reverse Polarity Protection** | Yes |
| **Short Circuit Protection** | Yes |
| **Isolation** | TRUE |

# Anybus Communicator – PROFINET IO Device to PROFIBUS DP Device

## General

| | |
|---|---|
| **Mounting** | DIN-rail (EN 50022 standard) |
| **Housing Materials** | PC ABS, UL 94 VO |
| **Packaging Material** | Cardboard |
| **Warranty (years)** | 5 |

## Identification and Status

| | |
|---|---|
| **Product ID** | ABC4023-A |
| **Model Code** | 40-ETH-PDP-A |
| **Predecessor** | AB7652-F |
| **Country of Origin** | Sweden |
| **HS Code** | 8517620000 |
| **Dual Usage** | No |
| **Export Control Classification Number (ECCN)** | 5A991.b.1 |

## Physical Features

| | |
|---|---|
| **Connectors / Input / Output** | 2x RJ45, 1x D-sub 9-pin female PROFIBUS connector, RJ45 Config port |
| **Push Buttons** | Factory reset |
| **DIP & Rotary Switches** | Security lock switch |
| **Contains Battery** | No |

## PROFIBUS Features

| | |
|---|---|
| **PROFIBUS Mode** | DP Device |
| **PROFIBUS Supported Functionality** | PROFIBUS-DP Slave functionality according to extensions of EN 50170 |
| **PROFIBUS Device Address** | 0-125 |
| **PROFIBUS Configuration File** | GSD available |

# Anybus Communicator – PROFINET IO Device to PROFIBUS DP Device

## PROFIBUS Features

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

## PROFINET Features

| | |
|---|---|
| **PROFINET Mode** | Slave |
| **PROFINET Supported Functionality** | RT; Daisy chaining; |
| **PROFINET Conformance Class** | Class B |
| **PROFINET Configuration File** | GSDML available |
| **PROFINET Bandwidth** | 10/100MBit down to 1ms cycle time |
| **PROFINET Input Data Size** | 1024 bytes |
| **PROFINET Output Data Size** | 1024 bytes |

## Certifications and Standards

| | |
|---|---|
| **Protection Class IP** | IP20 |
| **RoHS Compliant** | Yes |
| **Recycle / Disposal** | TRUE |
| **CE** | Yes |
| **FCC** | No |
| **UL** | Yes |
| **UL Information** | E214107: Ord.Loc UL 61010-1, CSA C22.2 No. 61010-1, UL 61010-2-201, CSA C22.2 No. 61010-2-201 |
| **ATEX** | No |
| **KC** | Yes |

## Certifications and Standards

| | |
|---|---|
| **EMC** | Yes |
| **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 61000-4-6 |
| **Waste Certification (WEEE)** | Yes |
| **WEEE Category** | IT and telecommunications equipment |

## Use Case

The communicator can be used wherever there is a need to transfer data between control systems using different industrial protocols.