# Anybus X-gateway – PROFIBUS Slave – PROFIBUS Slave




*A protocol converter that connects PROFIBUS and PROFIBUS control systems*

**Item number: AB7843-F**

The Anybus X-gateway PROFIBUS Slave to PROFIBUS Slave enables you to connect any PROFIBUS system to any PROFIBUS control system. Anybus gateways ensure reliable, secure, high-speed data transfers between different industrial networks while being easy to use.

## Features and benefits

- **Reach new markets**
  Target new markets using different protocols without needing to change your hardware or software, thereby decreasing your time to market and development costs.
- **Slim hardware design**
  The gateway is designed for IP20 and DIN-rail mounting, enabling you to install it with ease, close to connected devices, thereby reducing wiring requirements.
- **Easy configuration – No programming required!**
  Quickly establish the connection between the two networks with the included Anybus Configuration Manager software. No programming skills are required for the setup process.
- **Trusted partner**
  Anybus has a long history of working with all the major network organizations to ensure compliant, high-performing, and compatible products.
- **No PLC card slot needed**
  The gateway does not use a card slot in the control system, leaving room for other equipment.
- **3-year warranty**
  The gateway is designed to be robust and long-lasting. A 3-year guarantee is provided
- **Increased PLC performance**
  The gateway allows for fast transfer of cyclic I/O data between the two networks, offloading your PLC from working with additional calculations.
- **Life cycle management**
  HMS maintains every part of the gateway, including network updates, throughout the product's lifecycle.

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## General

| | |
|---|---|
| **Net Width (mm)** | 44 |
| **Net Height (mm)** | 127 |
| **Net Depth (mm)** | 114 |
| **Net Weight (g)** | 420 |
| **Packed Width (mm)** | 155 |
| **Packed Height (mm)** | 75 |
| **Packed Depth (mm)** | 200 |
| **Packed Weight (g)** | 600 |
| **Operating Temperature °C Min** | -25 |
| **Operating Temperature °C Max** | 65 |
| **Storage Temperature °C Min** | -40 |
| **Storage Temperature °C Max** | 85 |
| **Current Consumption Type Value at Vcc Nom (mA)** | 200mA @ 24V DC |
| **Current Consumption Max value at Vcc nom (mA)** | 400mA @ 24V DC |
| **Input Voltage (V)** | 24V DC (-20% to +20%) |
| **Power Connector** | 2-pin, 5.08 Phoenix plug connector |
| **Reverse Polarity Protection** | Yes |
| **Short Circuit Protection** | Yes |
| **Isolation** | TRUE |

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## General

| | |
|---|---|
| **Mounting** | DIN-rail (EN 50022 standard) |
| **Housing Materials** | Aluminium, Plastic |
| **Packaging Material** | Cardboard |

## Identification and Status

| | |
|---|---|
| **Product ID** | AB7843-F |
| **Country of Origin** | Sweden |
| **HS Code** | 8517620000 |
| **Dual Usage** | No |
| **Export Control Classification Number (ECCN) (Applies only to the U.S)** | 5A991.b.3 |

## Physical Features

| | |
|---|---|
| **Connectors / Input / Output** | 1x D-sub 9-pin female PROFIBUS connector, USB-B Config port |
| **DIP & Rotary Switches** | 2x Rotary Address Node |
| **Contains Battery** | No |

## 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 |
| **PROFIBUS Input Data Size** | 244 bytes (344 max tot in+out) |
| **PROFIBUS Output Data Size** | 244 bytes (344 max tot in+out) |

## Certifications and Standards

| | |
|---|---|
| **Protection Class IP** | IP20 |

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| | |
|---|---|
| **RoHS Compliant** | Yes |
| **Recycle / Disposal** | TRUE |
| **CE** | Yes |
| **FCC** | No |
| **UL** | Yes |
| **UL Information** | E214107: Ord.Loc UL508, CSA C22.2 NO. 142 |
| **EMC** | Yes |
| **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 |
| **Waste Certification (WEEE)** | Yes |
| **WEEE Category** | IT and telecommunications equipment |