

BridgeWay™ Profibus to DeviceNet Gateway (AB7605)

The BridgeWay Profibus to DeviceNet Gateway provides connectivity between a Profibus-DP network and a DeviceNet network. This compact, DIN rail mountable device solves a mission-critical problem by connecting existing or newly installed DeviceNet networks to Profibus DP-Master PLCs, Scanners, HMIs or DCSs. AB7605 is the proven choice to monitor and control devices on a DeviceNet network from any Profibus-DP Master.

The gateway operates as a Profibus-DP Slave, allowing a Profibus-DP Master to read and/or write data from/to up to 63 DeviceNet Slave devices. The DeviceNet side of the gateway is a full DeviceNet Master and I/O scanner, complete with the Automatic Device Replacement (ADR) feature. ADR allows the gateway to automatically restore configuration data to a device, once a failed device has been replaced on the DeviceNet network. This eliminates the additional cost of PLC-based DeviceNet scanners, and adds connectivity to your DeviceNet networks throughout the plant. The AB7605 can also operate as a DeviceNet Slave.

Configuration of the gateway is easy with Rockwell Software's RSNetWorx™ for DeviceNet or NetTool-DN-D (available from Pyramid Solutions). Configuration consists of building a scan list of the target devices on your DeviceNet network. This creates the input/output data that will be mapped into Profibus-DP I/O data.

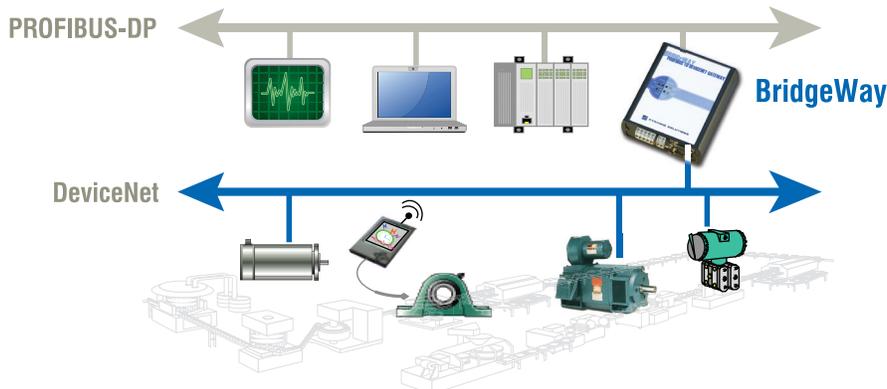
Target Industries and Application Examples

- Motor Control Centers (MCC)
- Water and Waste Water Systems
- Automotive Manufacturing
- Pulp and Paper
- Semiconductor Processing
- Food and Beverage
- Packaging and Material Handling

Key Benefits

- Enables existing or new DeviceNet networks to connect to incompatible control networks
- Feature-rich, cost-effective solution
- Replaces high cost computer gateways and PLC scanners
- Rapid installation and configuration
- Low risk, reliable operation
- Superior product support

BridgeWay network gateways and interfaces provide low cost, high performance, and flexible connectivity solutions for a wide range of applications, including industrial automation and vehicle networks. Designed as a modular platform with configurable hardware and software, BridgeWay products can be adapted to meet your specific needs.



Key Features

- Profibus-DP to DeviceNet network connectivity
- Works with a Profibus-DP Master compatible PLC, HMI or DCS
- Complete DeviceNet Master/Scanner for up to 63 DeviceNet Slave devices or can operate as a DeviceNet Slave
- Operates and appears as a Profibus-DP Slave
- DeviceNet configuration is performed using Rockwell Software's RSNetWorx™ for DeviceNet or NetTool-DN-D (available from Pyramid Solutions)
- Supports Automatic Device Replacement (ADR) functionality (now 128k was 64k)
- Supports Configuration Consistency Value (CCV) functionality
- Supports DeviceNet Quick Connect client functionality
- Supports configurable input safe state behavior
- Allows DeviceNet scanner status to be optionally mapped into the I/O data for Profibus Masters that can't read diagnostic data
- Supports FLASH field updates
- LED network and module status indicators
- DIN (includes DIN rail mount)
- Rugged aluminum enclosure
- AB7605 EDS and GSD files are provided for configuration tools

Specifications for Part No. AB7605

- Mechanical dimensions: L = 4.96" (126 mm); W = 4.30" (109 mm); H = 1.65" (42mm)
- Operating voltage: 11 – 32 VDC
- Operating temperature: 0 - 70° C
- EMC compliance: EN50081-2 and EN50082-2
- Certifications: CE and cULus

Optional Accessories

AB7605 Configuration Kit (Part No. AB7605-CFG)

The kit contains the following materials:

- 3 meter 9 to 9 pin serial cable used to configure the module with our BWConfig software
- Mini CD holds latest version of AB7605 user manual, BWConfig software, EDS file and GSD file

Note: NetTool-DN-D (available from Pyramid Solutions) or RSNetworx is needed to configure the module's DeviceNet Master Scanlist.

Please visit our web site to get the very latest firmware updates for Profibus to DeviceNet Gateway (AB7605)



Get up and running with BridgeWay Services

Need help designing a network solution? Configuring or integrating your BridgeWay? We offer consulting, development and system integration services, including custom software development, to help you achieve your specific application requirements.

Flexible BridgeWay gateways and interfaces offer a significant range of functionality and are used in a wide range of applications. Businesses that want to make the most of these capabilities, or even expand on them, can take advantage of our *professional services* expertise, especially when schedules are tight or custom functionality is required. We can create a solution package based on your specific needs, ranging from remote hourly support, to onsite services or turnkey custom development. BridgeWay services include:

- BridgeWay solution network design, installation and configuration assistance
- BridgeWay and network training
- Remote support/consulting services (scheduled hourly services via phone or email)
- Onsite services (fixed price or hourly)
- Custom BridgeWay enhancements and PC software applications

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