

PROFIBUS OPC Server

Easy Access to DP-V0,
DP-V1 and PA Data

Product Information

OPC Server with Configuration Tool

The PROFIBUS OPC Server gives you fast and easy access to PROFIBUS DP and PA devices from any manufacturer. Besides its ease of use and extremely high performance, it allows for flexible use as a PROFIBUS master. An integrated PROFIBUS configurator assists you in setting up DP-V0 and DP-V1 networks and helps you reduce commissioning time and costs.

Easy Commissioning

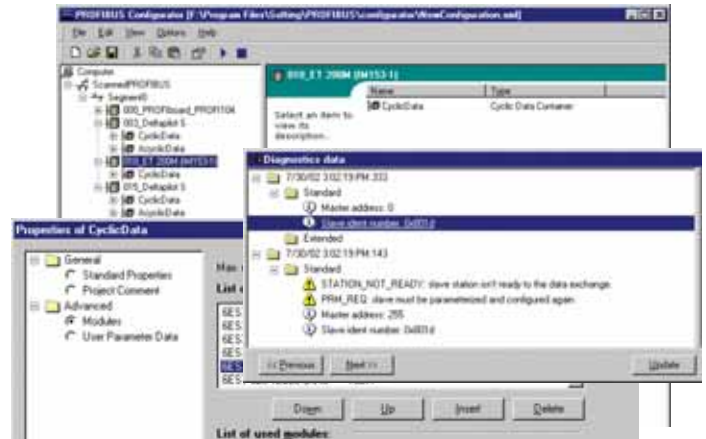
PROFIBUS DP-V0 and DP-V1 devices are described by GSD files which are supplied by the device manufacturer. The PROFIBUS OPC Server Configurator already contains a large number of GSD files for most industry-standard devices. They are stored in a GSD pool which you can easily expand by additional GSDs. By actively scanning the entire PROFIBUS address space, the configurator detects all the devices connected in a network and automatically generates the network topology. It also assigns the relevant descriptions from the GSD pool to the detected devices. This eliminates the time-consuming need to assign the GSD files by hand. The result of this auto-configuration is saved to an XML file, which the OPC server uses to initialize the network and create the OPC namespace. The configurator also gives you a very easy way to set the addresses at the PROFIBUS devices.

Save Time by importing existing Projects

Export the configuration of your visualization or control application into the XML file of the OPC Server Configurator. This saves you the need to manually create the OPC namespace and gives you much time for other work.

Powerful Visualization

The PROFIBUS OPC Server supports the OPC specifications Data Access 2.05 and 3.0 and provides fast access to PROFIBUS data with any OPC client application, such as Citect, iFix, WinCC, InTouch, etc. The additional XML-DA interface enables you to access the PROFIBUS data even across firewall boundaries.



Web Server, diagnostic Tool and ActiveX Controls included

The PROFIBUS OPC Server comes with a web-based diagnostic tool and allows visualization via an integrated web server. You can use any web browser to remotely access status, diagnostic and process data over the Internet. An OPC test client is also included for commissioning and testing the OPC connection. The package additionally contains ActiveX controls for creating an OPC client in Visual Basic, Excel and other applications without programming effort.

Your Advantages

- Easy-to-use user interface
- Cost savings through extremely fast commissioning
- Automatic topology generation and GSD import
- Integrated web server for diagnostics and visualization
- Secure high-performance remote access without DCOM via integrated OPC tunnel
- OPC client and OPC ActiveX controls with Excel, HTML and Visual Basic samples included
- PROFIBUS DP-V0, DP-V1, PA
- 100 percent OPC compliant
- Support of the PNO/PROFdrive profile server for drives



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Product Information

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DP-V1 and PA Data**

Technical Data

PROFIBUS Properties

| | |
|------------------------------|---|
| Type of bus station | Master class 1 with DP-V0 services Master class 2 with DP-V1 services for connection establishment and unestablishment, reading and writing |
| Supported services | According to PROFIBUS EN 50 170 Volume 2, Part 8 and PROFIBUS-DP Extensions to EN 50170 (DP-V1) |
| Data types | <ul style="list-style-type: none">■ Simple data types Bitfield, Unsigned Byte, Signed Byte, Unsigned 16-bit Integer, Signed 16-bit Integer, Unsigned 32-bit Integer, Signed 32-bit Integer, 32-bit Float, 64-bit Double, String■ Arrays of Unsigned Byte, Signed Byte, Unsigned 16-bit Integer, Signed 16-bit Integer, Unsigned 32-bit Integer, Signed 32-bit Integer, 32-bit Float, 64-bit Double■ Records with Unsigned Byte, Signed Byte, Unsigned 16-bit Integer, Signed 16-bit Integer, Unsigned 32-bit Integer, Signed 32-bit Integer, 32-bit Float, 64-bit Double, String |
| Net data length | 244 bytes |
| Number of addressable slaves | 125 |

OPC Properties

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|-------------------------|---|
| OPC Specification | Data Access 2.05, 3.0, XML-DA |
| Types of implementation | OutProc Server, InProc Server, Service |
| OPC data types | VARIANT data types VT_I2, I4, R4, R8, DATE, BSTR, BOOL, UI1 and arrays with these data types (VT_ARRAY) |
| OPC Interfaces | <ul style="list-style-type: none">■ All mandatory interfaces according to Data Access Specification 2.05, 3.0 und XML-DA■ namespace browsing■ PublicGroups■ Support of the PROFIBUS profile server for drives■ Support of a dynamic namespace |

Requirements

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|-----------------------|--|
| Hardware requirements | <ul style="list-style-type: none">■ Windows-enabled PC■ Softing PROFusb, PBpro, PROFboard ISA, PROFboard PCI, PROFcard, PROF1104■ Softing FG-300 PROFIBUS, FG-100 PROFIBUS |
| Operating systems | Windows 95/98/Me/NT/2000 with current Service Packs (status Sept. 2006) |

Miscellaneous

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|-------------------|--|
| Documentation | Printed Getting Started Booklet and online help in German und English |
| Integrated Tunnel | For secure high-performance remote access without DCOM through the integrated server-side OPC Tunnel |

Order Number

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|--------------|--|
| OPC-PB | PROFIBUS OPC Server and Configurator, SW-based copy protection |
| OPC-PB/USBHW | Hardlock USB as copy protection, only in combination with OPC-PB |
| OPC-PB/PARHW | Hardlock for parallel port as copy protection, only in combination with OPC-PB |