



DNP 3.0 Slave to PROFIBUS DP Slave Gateway

5105-DNPS-PDPS

The DNPS-PDPS modules are the ideal solution for the many applications where PROFIBUS connectivity can be used to integrate DNP serial devices into a system. The PROFIBUS gateway is a powerful module designed with Client support, enabling easy connection to Rockwell Automation PLCs (CLX, SLC, PLC, CPLX, and similar devices). In combination with the DNP device support, the module provides a very powerful interface to the many DNP devices which are in use in the industrial marketplace today. Applications for the module are found in most industries, especially Manufacturing, Oil and Gas, Electrical Power and Food Processing.

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All ProSoft Technology® products are backed with unlimited technical support. Contact our worldwide Technical Support team directly by phone or email:

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DNP 3.0 Slave to PROFIBUS DP Slave Gateway

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The ProLinx DNP Slave to PROFIBUS DP Slave Gateway creates a powerful connection between DNP and PROFIBUS master devices. This stand-alone DIN-rail mounted protocol gateway provides one serial port and one PROFIBUS Slave port.

The DNP 3.0 Slave protocol driver supports Slave implementations of the protocol on one port. This port is fully configurable.

The PROFIBUS DP Slave protocol driver supports the PROFIBUS V0 Slave implementation, providing powerful data transfer capability between the ProLinx module and Siemens PLCs or other hosts. User configurable data mapping and DP port operation make the interface an easy to use and powerful data transfer tool.

DNP 3.0 Slave

The DNP 3.0 Slave driver provides extensive support for Slave implementations of the protocol. The serial port on the gateway is user-configurable to support the DNP 3.0 protocol (Slave, Error Checking, Baud rate, etc).

General Parameters

| | |
|--------------------------|---|
| Internal Database | Binary Inputs: 0 to 500 word count Analog Inputs: 0 to 500 points Counters: 0 to 250 points Binary Outputs: 0 to 200 word count Analog Outputs: 0 to 500 points Binary Input Events: 0 to 100 event buffer Analog Input Events: 0 to 100 event buffer |
| Communication parameters | Baud Rate: 110 to 115K baud Stop Bits: 1 Data Size: 8 bits Parity: None RTS Timing delays: 0 to 65535 ms |
| DNP Mode | DNP 3.0 Slave – Level 2 |

DNP Slave

| | |
|--------------|----------------------------------|
| Node address | 0 to 65534 (software selectable) |
|--------------|----------------------------------|

PROFIBUS DP Slave

The PROFIBUS DP Slave driver gives access to the ProLinx unit's internal database via 244 bytes of Input data and 244 bytes of Output data (maximum 400 bytes total). These Input and Output data blocks are mapped



by the user within the ProLinx module's data memory allowing the user maximum flexibility and data transfer with other protocols.

General Parameters

| | |
|----------|---|
| GSD File | PRLX05A5.GSD Downloadable from ProSoft Technology web site |
|----------|---|

PROFIBUS Specifications

| | |
|--------------------------------|---|
| Communication parameters | Baud Rate: 9.6 kbit/s – 12 Mbit/s |
| Supported I/O length | 244 bytes Input data 244 bytes Output data 400 bytes total |
| Supported PROFIBUS DP features | PROFIBUS V0 Slave using Siemens SPC3 chipset Freeze Mode Sync Mode Auto Baud Setting |
| Configurable Parameters | PROFIBUS Node Address: 1 to 125 Data byte swapping Action on loss of PROFIBUS connection Comm Fail Timeout Multiplier Status Data location in Internal Database |

General Specifications

The ProLinx Communication Modules provide connectivity for two or more dissimilar network types. The modules, encased in sturdy extruded aluminum, are stand-alone DIN-rail mounted protocol gateways, providing communication between many of the most widely used protocols in industrial automation today.

Hardware Specifications

| Specification | Description |
|---------------------------|---|
| Power Supply | 24 VDC nominal 18 to 36 VDC allowed Positive, Negative, GND Terminals 2.5 mm screwdriver blade |
| Current Load | 500 mA max@ 24 VDC |
| Operating Temperature | 0 to 50°C (32 to 122°F) |
| Storage Temperature | -40 to 85°C (-40 to 185°F) |
| Relative Humidity | 5 to 95% (non-condensing) |
| Dimensions | Standard: 5.20H x 2.07W x 4.52D in. (13.2cmH x 5.25cmW x 11.48cmD) Extended: 5.20H x 2.73W x 4.52D in. (13.2cmH x 6.934cmW x 11.48cmD) |
| LED Indicators | Power and Module Status Application Status Serial Port Activity LED Serial Activity and Error LED Status |
| Configuration Serial Port | DB-9M RS-232 only No hardware handshaking |

| Specification | Description |
|---------------------------------------|--|
| Ethernet Port (Ethernet modules only) | RJ45 Connector Link and Activity LED indicators |
| Application Serial Ports | RS-232/422/485 RS-232 handshaking configurable RS-422/485 screw termination included |
| Serial Port Isolation | 2500V RMS port signal isolation per UL 1577 3000V DC min. port to ground and port to logic power isolation |
| Shipped with Each Unit | Mini-DIN to DB-9M serial cables 4 ft RS-232 configuration cable 2.5mm screwdriver CD (docs and Configuration utility) RS-422/485 DB-9 to Screw Terminal Adaptor (1 or 4, depending on ports) |

ProSoft Configuration Builder

ProSoft Configuration Builder (PCB) provides a quick and easy way to manage module configuration files customized to meet your application needs. PCB is not only a powerful solution for new configuration files, but also allows you to import information from previously installed (known working) configurations to new projects.

Additional Products

ProSoft Technology offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms.

Visit our web site at <http://www.prosoft-technology.com> for a complete list of products.

Ordering Information

To order this product, please use the following:

5105-DNPS-PDPS DNP 3.0 Slave to PROFIBUS DP Slave Gateway

To place an order, please contact your local ProSoft Technology distributor. For a list of ProSoft distributors near you, go to <http://www.prosoft-technology.com>

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