DNP 3.0 Slave to PROFIBUS DP Master Gateway
5104-DNPS-PDPM

The DNPS-PDPM modules are the ideal solution for the many applications where DNP connectivity can be used to integrate a PROFIBUS DP Slave device into a system. The DNP 3.0 Slave 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 PROFIBUS DP Slave device support, the module provides a very powerful interface to the many PROFIBUS 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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DNP 3.0 Slave to PROFIBUS DP Master Gateway

5104-DNPS-PDPM
The ProLinx DNP 3.0 Slave to PROFIBUS DP Master Gateway creates a powerful connection between devices on a PROFIBUS network and DNP devices. This stand-alone DIN-rail mounted protocol gateway provides one serial port and one DB9F port configurable for PDPM.

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

The PROFIBUS DP Master protocol driver supports Master implementations of the protocol on either a Mono-Master or Multi-Master network.

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 Master
The PROFIBUS Master protocol driver exists as a single port implementation. The driver can be configured as a Class 1 PROFIBUS Master to continuously interface with other PROFIBUS slave devices. The unit is also used for

configuration of the nodes on the PROFIBUS network. It provides access to both standard as well as extended diagnostic information.

General Parameters	
Communication parameters	Baud Rate: 9.6 kbit/s – 12 Mbit/s
PROFIBUS Master	
Command List	Read Diag
	Global Cmd
	Read Cntrs
	Reset Cntrs
Node address	0 - 125 – software selectable.
Status Data	Error codes, counters and port status available per configured slave on the network.

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 VDC to 36 VDC allowed
	Positive, Negative, GND Terminals
	2.5 mm screwdriver blade
Current Load	500 mA max @ 24 VDC
Operating Temperature	32° F to 122° F (0° C to 50° C)
Storage Temperature	–40° F to 185° F (–40° C to 85° C)
Relative Humidity	5% to 95% (with no condensation)
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
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

Specification	Description
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:

5104-DNPS-PDPM   DNP 3.0 Slave to PROFIBUS DP Master 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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