



DH-485 to DNP 3.0 Master Gateway 5102-DH485-DNPM

The DH485-DNPS modules are the ideal solution for the many applications where DH-485 connectivity can be used to integrate a DNP master device into a system. The DH-485 gateway is a powerful module designed with both Master and Slave support, enabling easy connection to Rockwell Automation PLCs (CLX, SLC, PLC, CPLX, and similar devices). In combination with the DNP 3.0 Slave 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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DH-485 to DNP 3.0 Master Gateway

5102-DH485-DNPM

The ProLinx DH-485 to DNP 3.0 Master gateways create a powerful connection between a DH-485 device and a DNP 3.0 slave device. This stand-alone DIN-rail mounted protocol gateway provides one DH-485 Master or Slave configurable serial port and one DNP 3.0 master configurable serial port.

The DH-485 protocol driver supports the Master and the Slave modes of the protocol on each port, providing powerful data transfer capability with Rockwell Automation PLCs and HMIs. All DH-485 ports are individually configurable. User configurable data mapping make the interface an easy to use and powerful data transfer tool.

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

DH-485

The DH-485 protocol in its native form is a peer to peer token passing network. The ProLinx DH-485 driver accesses the network functioning either as a Master or as a Slave.

General Protocol Information

Error Checking	BCC and CRC
Communication Parameters	Local Station ID: 0 to 31
	Port 0 Baud Rate: 110 to 38.4K baud
	Port 1 Baud Rate: 110 to 19200 baud
	Stop Bits: 1 or 2
	Data Size: 7 or 8 bits
	Parity: None, Even, Odd
	RTS Timing delays: 0 to 65535 ms

DH-485 Slave Mode

In Slave mode, the module accepts commands from one or more Masters to read/write data stored in the module's internal data memory. In this mode, the ProLinx unit is answering DH-485 commands and has the appearance of an SLC processor to the network.

DH-485 Master Mode

In Master mode, the ProLinx DH-485 driver will actively gather data from other devices on the network, controlling the read/write data transfer between the gateway and other DH-485 devices, such as SLC processors. Data transfer can be initiated and executed with the other devices without any ladder logic being required in the Rockwell Automation slave hardware.

DH485 Functioning as a Master

Command List	Up to 100 command per master port, each fully configurable for function, slave address, register to/from addressing and word/bit count
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DH485 Functioning as a Master

Polling of command list	User configurable polling of commands, including disabled, continuous and on change of data (write only)
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DNP 3.0 Master

The DNP 3.0 Master driver provides extensive support for Master implementations of the protocol. The serial port on the gateway is user-configurable to support the DNP 3.0 protocol (Master, 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 500 word count Analog Outputs: 0 to 500 points
DNP Mode	DNP 3.0 Master – Level 2
DNP Object Support	DNPM Driver Manual contains full Object Definition documentation

DNP Master

Node address	0 to 65534 – software selectable
Slave count	Up to 40 slave devices
Command count	Up to 300 user defined commands to interface with remote slave devices

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	-20 to 50°C (-4 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

Specification	Description
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
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.