



DH-485 to Modbus Master/Slave Gateway 5102-DH485-MCM3

The DH485-MCM modules are the ideal solution for the many applications where Modbus connectivity can be used to integrate a DH-485 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 Modbus device support, the module provides a very powerful interface to the many Modbus 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 Modbus Master/Slave Gateway

5102-DH485-MCM3

The ProLinX DH-485 to Modbus Master/Slave Gateway creates a powerful connection between devices on a Modbus network and a DH-485 master or slave device. This stand-alone DIN-rail mounted protocol gateway provides one DH-485 Master or Slave configurable serial port and three Modbus Master or Slave configurable serial ports.

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 Modbus protocol driver supports Master and Slave implementations of the protocol. All Modbus serial ports are individually configurable, providing a very powerful and flexible host or device interface solution.

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

