



Modbus Master/Slave Communication Module MVI94-MCM

Applications using the Modbus Communication Module can be found in many industrial sectors and in the following applications

- Foreign device data concentrator
- Pipelines and offshore platforms
- Food processing
- Mining
- Pulp and paper
- SCADA communications

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Modbus Master/Slave Communication Module

MVI94-MCM

The MVI94 Modbus Master/Slave Communication Module allows Rockwell Automation FLEX processors to interface easily with other Modbus protocol compatible devices.

Compatible devices include not only Modicon PLCs (which all support the Modbus protocol) but also a wide assortment of end devices. A 5000-word register space in the module exchanges data between the processor and the Modbus network.

Features and Benefits

The inRAx Modbus Master/Slave Communication Module is designed to allow FLEX processors to interface easily with Modbus protocol-compatible devices and hosts.

The MVI94-MCM module acts as an input/output module between the Modbus network and the FLEX backplane. The data transfer from the FLEX processor is asynchronous from the actions on the Modbus network.

Many host SCADA applications support the Modbus protocol, while devices commonly supporting the protocol include several PLCs, as well as many other third party devices in the marketplace. (For a partial list of devices that speak Modbus, please visit the ProSoft Tested section of the ProSoft Technology web site).

General Specifications

Some of the general specifications include:

- Operation via simple ladder logic
- Complete setup and monitoring of module through Debug port and user configuration file
- Flex backplane interface via I/O access

Hardware Specifications

Specification	Description
Form Factor	Single Slot 1794 Backplane compatible Locate in any slot of Backplane
Backplane current load	20 mA @ 5 V
External power supply	12V to 24VDC 340 mA to 170 mA
Operating temperature	0 to 55°C (32 to 131°F)
Storage temperature	-40 to 85°C (-40 to 185°F)
Shock	30g operational 50g non-operational 5g from 10150 Hz
Relative humidity	5% to 95% (non-condensing)
LED indicators	Module status Backplane transfer status Application status Serial activity and error LED status
Configuration Serial port (PRT1)	Mini-DIN RS-232 Hardware handshaking
Application serial Port (PRT2)	Mini-DIN RS-232/422/485 jumper selectable 500V optical isolation from backplane
Dimensions (with Module installed in Base)	3.7H x 3.7W x 2.7D inches 94H x 94W x 69D mm

Functional Specifications

- Support for the storage and transfer of up to 5000 registers to/from the FLEX processor's data files
- User-definable module memory usage
- Application port can emulate Modbus master or slave device
- Supports Enron version of Modbus protocol for floating point data transactions

Slave Specifications

The MVI94-MCM module accepts Modbus function code commands of 1, 2, 3, 4, 5, 6, 15 and 16 from an attached Modbus master unit. A port configured as a Modbus slave permits a remote master to interact with all data contained in the module. This data can be derived from other Modbus slave devices on the network, through a master port, or from the FLEX processor.

Master Specifications

A port configured as a virtual Modbus master device on the MVI94-MCM module actively issues Modbus commands to other nodes on the Modbus network. One hundred (100) commands are supported on each port. Additionally, the master port has an optimized polling characteristic that polls slaves with communication problems less frequently. The FLEX processor can be programmed to control the activity on the port by actively selecting commands from the command list to execute or issuing commands directly from the ladder logic.

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:

Standard

MVI94-MCM (Standard - Current version)

OEM

MVI94-MCM-MHI (Version 1.12M)

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