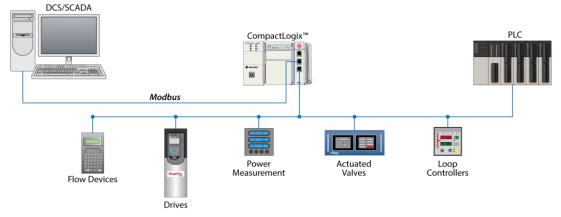


DATASHEET

Modbus Serial Enhanced Communication Module MVI69E-MBS

The MVI69E-MBS Modbus Serial module for CompactLogix[™] is designed for all applications requiring Modbus Serial connectivity. This module comes with an Add-on Profile and an Add-on Instruction to reduce commissioning time. The MVI69E-MBS has two serial ports and can support both Master and/or Slave connectivity to interface with a variety of devices using the Modbus Protocol.





Features

- Supports CompactLogix processors with 1769 I/O bus capability version 16 and greater (MicroLogix 1500 not supported)
- Add-on Instruction creates UDTs, providing logical definitions for I/O, status, and control data
- Add-on Profile support, improving integration in the CompactLogix System
- Diagnostic data available in processor controller tags, enabling decisions to be made based upon node health
- Module configuration backed up in CompactLogix project (ACD file)
- Module acts as a co-processor reducing impact to PLC scan time
- Supports up to 10,000 words of data
- Supports up to 250 Modbus Commands per port
- Each port can be configured individually as a Modbus Master or Modbus Slave device
- Supports Enron and Daniel-style Floating point data implementations
- Suitable for SCADA and field device interface applications

General Specifications

Specification	Description	
Configuration	ProSoft Configuration Builder	
I/O Size	60/120/240 - 16 bit integers	
Communication parameters	Baud Rate: 110 to 115K baud	
	Stop Bits: 1 or 2	
	Data Size: 7 or 8 bits	
	Parity: None, Even, Odd	
	RTS Timing delays: 0 to 65535 milli	seconds
Modbus Modes	RTU mode (binary) with CRC-16	
	ASCII mode with LRC error checkin	g
Floating Point Data		orted, including configurable support
	for Enron, Daniel [®] , and other impler	nentations
Modbus Function	1: Read Coil Status	15: Force(Write) Multiple Coils
Codes Supported	2: Read Input Status	16: Preset (Write) Multiple
	3: Read Holding Registers	Holding Registers
	4: Read Input Registers	17: Report Slave ID (Slave Only)
	5: Force (Write) Single Coil	22: Mask Write Holding
	6: Preset (Write) Single	Register (Slave Only)
	Holding Register	23: Read/Write Holding
	8: Diagnostics (Slave Only,	Registers (Slave Only)
	Responds to Sub function 00)	

Modbus Master

Specification	Description
Command List	Up to 250 command per Master port, each fully configurable for function, slave address, register to/from addressing and word/bit count.
Polling of command list	Configurable polling of command list, including continuous and on change of state.
Status Data	Error codes available on an individual command basis. A slave status list is maintained per active Modbus Master port.

Modbus Slave

Specification	Description
Node address	1 to 247 (software selectable)
Status Data	Error codes, counters and port status available per configured slave port

Hardware Specifications

Specification	Description
Dimensions	Standard 1769 Single-slot module
Current Load	500 mA max @ 5 VDC
	Power supply distance rating of 4
Operating Temp.	32° F to 140° F (0° C to 60°C)
Storage Temp.	-40° F to 185° F (-40° C to 85° C)
Relative Humidity	5% to 95% (with no condensation)
LED Indicators	OK - Module Status
	ETH - Ethernet Communication
	P1 - Port 1 Serial Communication
	P2 - Port 2 Serial Communication
	BP - Backplane Connectivity
	CFG - Valid Configuration
Debug Port	10/100 Ethernet Port (auto-negotiating)
App Ports (P1,P2)	RS-232, RS-485 or RS-422
	RJ45 (DB-9F with supplied cable)
	RS-232 handshaking configurable
	500V Optical isolation from backplane
Shipped with Unit	2 - RJ45 to DB-9M cables for application ports
	2 - DB-9F breakout boards

Agency Approvals & Certifications

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MVI69E-MBS

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