



MDA Scientific System 16 Gas Analyzer Slave Module

MVI56-MDA16

The **MVI56** MDA Scientific System 16 Gas Analyzer Slave Module allows Rockwell Automation ControlLogix processors to interface easily as a host with MDA Scientific CM4 gas monitoring hardware (See MVI56-MDA4 for a CM4 solution).

Features and Benefits

The MVI56-MDA16 module acts as an input/output module between the System 16 network and the Rockwell Automation backplane. The data transfer from the ControlLogix processor is asynchronous from the actions on the System 16 network. A 1600-word register space in the module is used to exchange data between the processor and the System 16 network.

General Specifications

- Single Slot – 1756 backplane compatible
- The module is recognized as an Input/Output module and has access to processor memory for data transfer between processor and module
- Ladder Logic is used for data transfer between module and processor. Sample ladder file included.
- Configuration data obtained from configuration text file downloaded to module. Sample configuration file included
- Local or remote rack

Hardware Specifications

Specification	Description
Backplane Current Load	800 mA @ 5 V
Operating Temperature	0 to 60°C (32 to 140°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)
Shock:	30g Operational 50g non-operational
	Vibration: 5 g from 10 to 150 Hz
Relative Humidity	5 to 95% (non-condensing)
LED Indicators:	Module Status Backplane Transfer Status Application Status Serial Activity

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This application is useful for any industry producing, using, or exposed to toxic or corrosive gases, where interfacing the System 16 Gas Analyzer with a ControlLogix processor is required.

How to Contact Us: Sales and Support

All ProSoft Technology products are backed with unlimited technical support. Contact our worldwide Technical Support team directly by phone or email:

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Specification	Description
Debug/Configuration port (CFG)	
CFG Port (CFG)	RJ45 (DB-9M with supplied cable) RS-232 only
Application ports (PRT1 & PRT2)	
Full hardware handshaking control, providing radio, modem and Multi-drop support	
Software configurable communication parameters	Baud rate: 110 to 115,200 baud, depending on protocol RS-232, 485 and 422 Parity: none, odd or even Data bits: 5, 6, 7, or 8 Stop bits: 1 or 2 RTS on/off delay: 0 to 65535 ms
App Ports (P1,P2) (Serial modules)	RJ45 (DB-9M with supplied cable) RS-232 handshaking configurable 500V Optical isolation from backplane
Shipped with Unit	RJ45 to DB-9M cables for each port 6-foot RS-232 configuration cable

Functional Specifications

Some of the general specifications include:

- Support for the storage and transfer of up to 1600 registers to/from the ControlLogix processor's data files
- Two System 16 slave ports.
- Configurable parameters include:
 - Baud Rate 110 to 115,200
 - Parity None, Odd and Even
 - Data Bits 5 to 8
 - Stop Bits 1 or 2
 - RTS On and Off Timing 0 to 65535 milliseconds
 - Use of CTS Modem Line Yes or No

Operating Specifications

The MDA-16 product includes the following standard features:

- Two fully configurable serial ports, each capable of supporting the System 16 Slave functionality
- Supports one System 16 unit per serial port, 2 total per module
- Memory mapping will be pre-defined in the module to ease implementation in the ladder program
- RS-485 connection from each port directly to the System 16 unit
- Supported System 16 command codes:
 - Write Commands
 - 0x30 Sequential Sample Results
 - 0x50 System Configuration
 - 0x52 Point Enable Masks
 - 0x53 Current System State

- 0x54 Point Configuration
- 0x56 Gas Table Data
- 0x61 Fault
- 0x68 Fault and Alarm Reset

- Operating Mode returned to ladder processor
- Error Codes returned to the ladder processor

Additional Products

ProSoft Technology offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms. Compatible products in the inRAX product line also include:

MDA Scientific CM4 Gas Analyzer Master Module (MVI56-MDA4)

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:

MVI56-MDA16 MDA Scientific System 16 Gas Analyzer Slave Module

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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