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:
  - o Baud Rate 110 to 115,200
  - o Parity None, Odd and Even
  - o Data Bits 5 to 8
  - o Stop Bits 1 or 2
  - o RTS On and Off Timing 0 to 65535 milliseconds
  - o 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:
  - o Write Commands
  - o 0x30 Sequential Sample Results
  - o 0x50 System Configuration
  - o 0x52 Point Enable Masks
  - o 0x53 Current System State
  - o 0x54 Point Configuration
  - o 0x56 Gas Table Data
  - o 0x61 Fault
  - o 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

Note:

The MVI56-MDA16 is in a Final Sales Period of two years, effective October 14, 2008 until October 14, 2010. Thereafter, the product will continue to be supported until October 14, 2014. The recommended replacement for this product is MVI56-MDA4.

For more information on the Product Retirement Program, please visit: http://www.prosoft-technology.com/products/product_retirement_program

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