



Class 1, Division 2,
Groups A, B, C, and D Hazardous
Locations.



SM General Communication Protocol Module

MVI56-SMGC

The inRAx SM General module is typically used to interface with devices in downhole applications in the petroleum exploration and production industry.

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SM General Communication Protocol Module

MVI56-SMGC

The MVI56 SM General Communication Protocol Module allows Rockwell Automation ControlLogix I/O compatible processors to interface easily with SM General Communication Protocol devices over an Ethernet network.

Features and Benefits

The MVI56-SMGC module interfaces an Ethernet communication device using the SM General Communication Protocol with the Rockwell Automation ControlLogix processor. A single client is present in the module to interface with a single server. The client permits both the reception and transmission of data between the Rockwell Automation processor and attached device.

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

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:

- One client to initiate a connection to a server and to receive and/or transmit data. This client will also set the tag indexes for all data points to be monitored and controlled based upon the user configuration.
- The module makes the TCP/IP Connection automatically to the remote server.
- Data exchange between the ControlLogix processor and the MVI module is optimized for use on a Control Net network.
- 10/100 MB Ethernet compatible interface.
- Configurable parameters for the client include:
 - Server IP address
 - Service Port number
 - Connection timeout
 - Tag lists for each data type

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:

MVI56-SMGC SM General Communication Protocol Module

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