



Honeywell DE Master Communication Interface Module MVI56-DEM

Supported Honeywell instruments include:

- ST 3000 smart pressure transmitter
- STT 3000 smart temperature transmitter
- SMV 3000 smart multivariable transmitter
- MagneW 3000 smart magnetic flowmeter
- SCM 3000 smart coriolis mass flowmeter
- SGC 3000 smart gas chromatograph

How to Contact Us: Sales and Support

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Asia Pacific

+603.7724.2080, asiapc@prosoft-technology.com
Languages spoken include: Chinese, Japanese, English

Europe – Middle East – Africa

+33 (0) 5.34.36.87.20, support.EMEA@prosoft-technology.com
Languages spoken include: French, English

North America

+1.661.716.5100, support@prosoft-technology.com
Languages spoken include: English, Spanish

Latin America (Sales only)

+1.281.298.9109, latinam@prosoft-technology.com
Languages spoken include: Spanish, English

Brasil

+55-11.5084.5178, eduardo@prosoft-technology.com
Languages spoken include: Portuguese, English

Honeywell DE Master Communication Module

MVI56-DEM

The MVI56 DE Master Communication Module allows Rockwell Automation ControlLogix I/O compatible processors to interface easily with Honeywell DE instruments. Compatible devices include a large array of field devices including pressure, temperature, metering and many other instruments.

Features and Benefits

The module supports 16 DE channels, allowing both single and/or multivariable Honeywell transmitters operating in the DE mode to be directly integrated in the Rockwell Automation environment.

Data exchange between the DEM module and the processor data table is performed using standard ladder logic. Included in system is the pre-programmed ControlLogix, rack and power supply, the DEM module and the Honeywell field terminal assembly and cable.

General Specifications

- Single Slot – 1756 backplane compatible
- Local or remote rack
- 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.
- Configuration data obtained through user-defined ladder. Sample ladder file included

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

- Backplane data transfer via input/output lmax files
- Interfaces with Honeywell smart transmitters operating in the DE mode.
- Support multiple DE channels CLX – up to 16 Channels with single PV transmitter, multivariable transmitters
- Instrument database mismatch verification
- Interfaces directly to Honeywell Field Terminal Assembly (FTA)
- Single cable connection from DEM module to FTA
- External 24 VDC source connection on front of DEM module for instrument loop power
- LEDs for visual module status
 - Module active
 - Module fault
- Operation via simple 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:

MVI56-DEM Honeywell DE Master
Communication Interface Module

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Europe

europe@prosoft-technology.com,
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