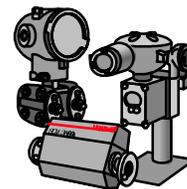




Preliminary



Multivariable Serial Interface for Smart Transmitters

DESCRIPTION

The **MSI**, **Multivariable Serial Interface**, module enables PCs, PLCs or RTUs to utilize all-digital communications.

The **MSI** converts the Honeywell's Digitally Enhanced (DE) protocol signal to a RS-485 signal with Modbus RTU Slave protocol.



Single MSI modules may be wired point-to-point. Multiple MSI modules may be multidropped to form a network. **MSI** Expansion I/O modules may be stacked to form larger I/O banks, as shown in the figure to the right.

MSI's share a common +24VDC and are individually fused. The **MSI** can read the digital PV and SV signals, device diagnostic STATUS and database parameters.

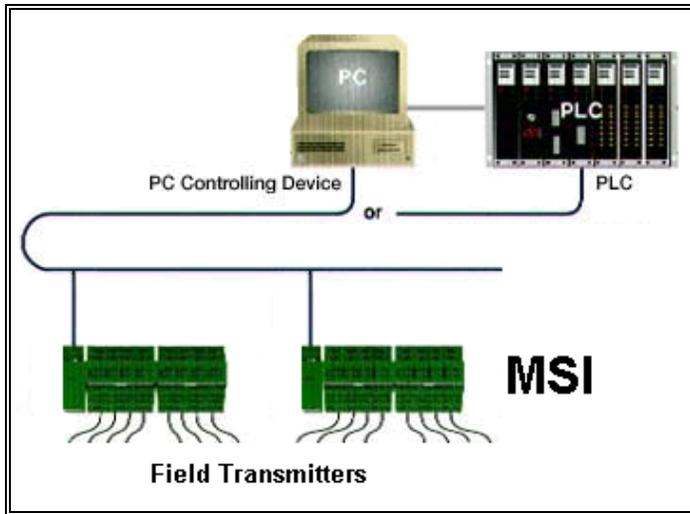
MSI modules may be combined with commercially available serial I/O devices such as modems for remote applications.

FEATURES

- Operates stand-alone, point-to-point or networked.
- Reads digital PVs/SVs, device diagnostics, and database.

COMPATIBILITY

The **MSI** module is fully compatible with all single and multivariable field instruments. All data is updated at the same rate as the DE signal. If a fast serial I/O rate is selected, there is virtually no additional delay as a result of using the **MSI**. Because the **MSI** uses Honeywell's robust all-digital bi-directional communications protocol, there are no disturbances as a result of handheld communicator usage.



WHY GO DIGITAL ?

Digital field instruments are more accurate than analog. Digital integration establishes a solid, secure basis for regulatory and advanced control. Digital integration increases profits because of the greater accuracy, repeatability and integrity of the process data. Digital integration is also a cost-effective means of acquiring **multivariable** process measurements. Digital integration of field devices provides centralized database management, and substantially reduces project implementation time, streamlines maintenance and avoids process upsets.

ORDERING INFORMATION

A printed *User Guide* is shipped with each order.

Model #: **MSI-R** Multivariable Serial Interface

Options: **MSI-E** Expansion I/O Module

Specifications: (PRELIMINARY)

# of DE Input Channels:	1 per module, receive only
Input Type:	Honeywell Digitally Enhanced (DE) Protocol, 4 or 6 byte mode.
Serial Comm Physical Interface:	RS-485 2-wire, 256 modules per bus
Serial Comm Port Data Rate:	300-19.2Kbaud, full duplex
Serial Protocols Supported:	Modbus RTU ASCII Slave
Power:	+24VDC @ 75ma.
Operating Temperature Range:	-20°C to +70°C, ambient
Mounting:	DIN rail

VEKTRON PROPRIETARY

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