

# Remote MVS Interface

The Remote MVS Interface is a communication package that allows up to five Remote MVS (Multi-Variable Sensor) units to be connected to a ROC300-Series Remote Operations Controller. The package provides simultaneous EIA-232 serial communications with another device.

The components of the Remote MVS Interface are:

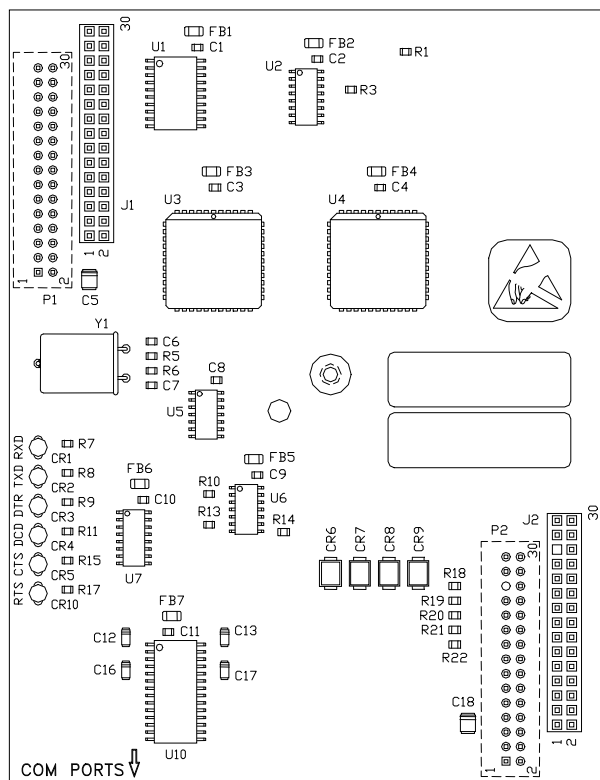
- A Dual Comm Card that installs inside the ROC the same as a ROC Communication Card.
- A Dual Port Interface (DPI) Module for splitting MVS and RS-232 serial signals. It mounts outside the ROC on a flat surface or on a DIN rail.
- A prefabricated cable for connecting the DPI Module to the ROC.
- A user program that loads into ROC memory to provide support for the MVS points.

The Dual Comm Card plugs into the main board of the ROC, which electrically connects it to the 9-pin comm-port connector on the front of the ROC. The prefabricated cable connects the ROC Comm port to the DPI module. The DPI module, which uses DC power, provides a 9-pin connector for EIA-232 serial communications (PORT 1) as well as a four-terminal MVS port (PORT 2). Up to five remote MVS units may be connected to the MVS port for a ROC364, and up to three units for a ROC306 or ROC312.

In a ROC364, which can hold two communication cards, the Dual Comm Card installs in the COM1 or COM2 position. A second communication card of any other type may be installed in the other position.

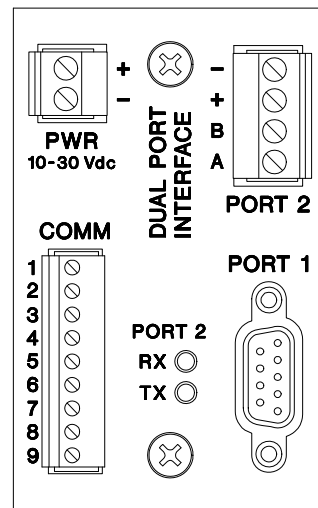
Both the Dual Comm Card and the DPI module have LED indicators for various serial communication signals.

To use the Remote MVS Interface, the ROC must have a FlashPAC (version 2.10c or greater). The downloadable user program runs in either the USER2 or USER4 task. ROCLINK™ 800 Configuration Software is required for configuration.



Dual Comm Card

DCC0371A



DPI Module

DCC0372B

## Remote MVS Interface Specifications

### MVS INTERFACE

High-speed, multi-drop serial interface (optically isolated) with power. Handles up to five Remote MVS units.

### EIA-232D COMMUNICATIONS

Meets EIA-232 standard for single-ended data transmission over distances of up to 15 m (50 feet).

**Data Rate:** Selectable from 300 to 9600 baud.

**Format:** Asynchronous, 7 or 8-bit (software selectable) with handshaking (without DCD, CTS, or RI).

**Parity:** None, odd, or even (software selectable).

### POWER REQUIREMENTS

**Dual Comm Card:** 4.75 to 5.25 V dc, 0.20 W max (supplied by ROC).

**DPI Module:** 10 to 30 V dc, 0.25 W plus 0.20 W per MVS unit connected.

### MOUNTING

**Dual Comm Card:** Mounts in standard ROC Communication Card position.

**DPI Module:** Mounts by adhesive (supplied) to flat surface, or by DIN rail brackets (supplied).

### PHYSICAL PORTS (ON DPI MODULE)

**Serial Port (PORT 1):** 9-pin, D-shell connector.

**MVS Port (PORT 2):** Removable connector, with 2 screw terminals for signals and 2 for MVS power.

### OTHER TERMINATIONS (ON DPI MODULE)

**Power (PWR):** Removable connector with 2 screw terminals.

**Inter-Device (COMM):** Removable connector with 9 screw terminals.

### LED INDICATORS

**Dual Comm Card:** LEDs for EIA-232 serial port signals: RXD, TXD, DTR, and RTS.

**DPI Module:** LEDs for MVS signals: TX and RX.

### ENVIRONMENTAL

Other than detailed below, same as the ROC in which the Dual Comm Card is installed.

**Operating Temperature:** Same as the MVS sensor to which the Dual Comm Card is connected.

### DIMENSIONS

**Dual Comm Card:** 25 mm H by 103 mm W by 135 mm L (1 in. H by 4.05 in. W by 5.3 in. L).

**DPI Module:** 46 mm H by 51 mm W by 82 mm L (1.8 in. H by 2.0 in. W by 3.2 in. L).

**DPI Cable:** 1.2 m (4 ft) long.

### WEIGHT

**Dual Comm Card:** 80 g (3 oz).

**DPI Module:** 100 g (4 oz).

### APPROVALS

Approved by CSA for hazardous locations Class I, Division 2, Groups A, B, C, and D.

Bristol, Inc., Bristol Babcock Ltd, Bristol Canada, BBI SA de CV and the Flow Computer Division, are wholly owned subsidiaries of Emerson Electric Co. doing business as Remote Automation Solutions ("RAS"), a division of Emerson Process Management. FloBoss, ROCLINK, Bristol, Bristol Babcock, ControlWave, TeleFlow and Helicoid are trademarks of RAS. AMS, PlantWeb and the PlantWeb logo are marks of Emerson Electric Co. The Emerson logo is a trademark and service mark of the Emerson Electric Co. All other marks are property of their respective owners.

The contents of this publication are presented for informational purposes only. While every effort has been made to ensure informational accuracy, they are not to be construed as warranties or guarantees, express or implied, regarding the products or services described herein or their use or applicability. RAS reserves the right to modify or improve the designs or specifications of such products at any time without notice. All sales are governed by RAS' terms and conditions which are available upon request. RAS does not assume responsibility for the selection, use or maintenance of any product. Responsibility for proper selection, use and maintenance of any RAS product remains solely with the purchaser and end-user.

### Emerson Process Management

#### Remote Automation Solutions

Marshalltown, IA 50158 U.S.A.

Houston, TX 77041 U.S.A

Pickering, North Yorkshire UK Y018 7JA

