



PROFIBUS DP Slave Communication Module MVI46-PDPS

The PROFIBUS DP slave interface enables Rockwell Automation SLC processors to interface with a PROFIBUS DP network. The MVI46-PDPS module is the ideal solution for many applications where connectivity to a PROFIBUS Master must be added to an SLC system. The PROFIBUS solution is designed to address the expanding interest in Rockwell Automation and PROFIBUS in industrial applications such as those in the Water/Wastewater, Power and Oil & Gas industries, SCADA and DCS applications.

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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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PROFIBUS DP Slave Communication Module

MVI46-PDPS

The MVI46 PROFIBUS DP Slave Communication Module allows Rockwell Automation SLC I/O compatible processors to interface easily with a PROFIBUS DP Master device.

Features and Benefits

The PROFIBUS DP Slave protocol driver supports the PROFIBUS V0 Slave implementation, providing powerful data transfer capability between the module and Rockwell Automation SLC processors. User configurable data mapping and DP port operation make the interface an easy to use and powerful data transfer tool.

The MVI46 module Configuration/Debug Serial port connects a PC to the module for configuration, status, monitoring, and troubleshooting (Serial cable is included with product shipment). After editing on a PC, a configuration file is downloaded and stored on the MVI46 module.

The PROFIBUS DP Slave gives access to the unit's input and output images with up to 244 bytes of Input and Output data, for a maximum of 400 bytes total. These Input and Output data blocks are mapped by the user within the inRAx module's data memory allowing maximum flexibility and data transfer with other protocols.

General Specifications

- Single Slot – 1746 backplane compatible (Local or extended I/O rack only. Remote rack not supported)
- The module is recognized as an Input/Output module and has access to processor memory for data transfer between processor and module using M0/M1 files
- 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

Hardware Specifications

Specification	Description
Backplane Current Load	800 ma @ 5V (from backplane)
Operating Temperature	0 to 60°C (32 to 140°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)

Specification	Description
Shock	30g operational, 50g non-operational
Relative Humidity	5 to 95% (non-condensing)
Vibration	5 g from 10150 Hz
LED indicators	Module status, Backplane transfer status, Application status, Serial activity and error LED status
Debug/Configuration port (CFG)	
CFG Port (CFG)	RJ45 (DB-9M with supplied cable) RS-232 only
Configuration Connector	RJ45 RS-232 Connector (RJ45 to DB-9 cable shipped with unit)
Application Ports	
Application Serial port (PRT1, PRT2) (Serial Modules)	(2) RJ45 RS-232/422/485 Application ports

Functional Specifications

PROFIBUS Slave

- Communication parameters
 - Baud Rate: 9.6 kbit/s to 12 Mbit/s
- Supported I/O length
 - Up to 244 bytes Input data
 - Up to 244 bytes Output data
 - Total not to exceed 400 bytes.
- Freeze Mode
- Sync Mode
- Auto Baud Setting
 - Configurable Parameters
 - PROFIBUS Node Address: 0 to 125
 - Data byte swapping
 - Action on loss of PROFIBUS connection
 - Comm Fail Timeout Multiplier
 - Status Data location in Internal Database
- Status Data
 - PROFIBUS Status Data for slave
- Physical Connection
 - PROFIBUS Connector
 - Standard PROFIBUS DB-9F communication connector. Cable connection matches PROFIBUS pin out specification.

PROFIBUS Slave Port Specifications

Type	Specifications
General Parameters	
Internal Database	400 registers (words) available
GSD File	Downloadable from ProSoft-Technology.com web site

PROFIBUS Slave

Communication parameters	Baud Rate: 9.6 kbit/s - 12 Mbit/s
Supported I/O length	122 words Input data 122 words Output data 200 words combined maximum
Supported PROFIBUS DP features	Freeze Mode Sync Mode Auto Baud Setting
Configurable Parameters	a) PROFIBUS Node Address: 0 to 125 b) Data byte swapping c) Action on loss of PROFIBUS connection d) Comm Fail Timeout Multiplier
Status Data	Error codes available on an individual command basis. In addition, a slave status list is maintained per active PROFIBUS Slave port.
Physical Connection	
PROFIBUS Connector	Standard PROFIBUS DB-9F communication connector. Cable connection matches PROFIBUS pin out specification.

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:

MVI46-PDPS PROFIBUS DP Slave
Communication Module

To place an order, please contact your local ProSoft Technology distributor. For a list of ProSoft distributors near you, go to <http://www.prosoft-technology.com>

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