PROFIBUS DP Slave Communication Module

MVI56-PDPS

With the growing usage of the PROFIBUS DP protocol in the industrial marketplace, this product has a wide variety of application uses. Industries that use this technology include:

- *Power and distribution applications*
- *Petrochemical*
- *Water and Gas Applications*
- *SCADA and DCS applications*

How to Contact Us: Sales and Support

All ProSoft Technology products are backed with unlimited technical support. Contact our worldwide Technical Support team directly by phone or email:

Asia Pacific
+60.3.7941.2888, 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, info@prosoft-technology.com
Languages spoken include: English, Spanish

Latin America
+52.222.264.1814, support.la@prosoft-technology.com
Languages spoken include: Spanish, English

Brasil
+55.11.5084.5178, brasil@prosoft-technology.com
Languages spoken include: Portuguese, English

PROFIBUS DP Slave Communication Module

MVI56-PDPS

The MVI56 PROFIBUS DP Slave Communication Module allows Rockwell Automation ControlLogix 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 ControlLogix processors. User configurable data mapping and DP port operation make the interface an easy to use and powerful data transfer tool.

The MVI56 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 MVI56 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 – 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
Form Factor:	Single Slot 1756 Chassis Compatible Local or Remote Rack
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 10150 Hz
Relative Humidity	5 to 95% (non-condensing)
LED Indicators:	Module Status Backplane Transfer Status Application Status Serial Activity and Error LED Status

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.

Functional Specifications

PROFIBUS Slave

- Communication parameters
  - Baud Rate: 9.6 kbit/s12 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.

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-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

May 3, 2019