PROFIBUS DP Slave Communication Module

PS69-DPS

The PS69-DPS module expands the functionality of Rockwell Automation's CompactLogix™ to include PROFIBUS DP V0/V1. The PS69-DPS is a more cost-effective option offering more features than the MVI69-PDPS, and supports both I/O control and messaging. Explicit ladder logic CIP message blocks provide slave status diagnostic data and acyclic messaging.

The PS69-DPS interface appears to the CompactLogix controller as a standard I/O module allowing it to be configured via RSLogix™ 5000, or configuration can be transferred from the Master to the PS69-DPS. For third party configuration a GSD file is supplied. The slave interface possesses a diagnostic interface and has rotary switches for setting of the bus address. Complete program examples for simple and quick start-up are available.

Each module is equipped with LEDs to display communication and device status.

Features and Benefits

Features	Benefits
PROFIBUS Certified	Recognized quality certification mark
DPV1 supported	Provides for acyclic messaging, extended diagnostics and extended data support
Ladder logic module configuration	Better Rockwell Automation® integration using ladder logic software

Configuration

The GSD file supplied is sufficient to integrate the PS69-DPS as a PROFIBUS DP Slave into the configuration of any PROFIBUS Master. The PROFIBUS address is set by rotary switches. The slave configuration can be either transferred from the Master to the PS69-DPS or can be defined from the Logix application.

Product Comparison

	MVI69-PDPS	PS69-DPS
Cross-platform similarity	✓	
Cyclic I/O (bytes)	200 in/ 200 out	244 in/ 244 out
PROFIBUS PNO Certified		✓
PROFIBUS DPV1 Support (Acyclic messages, Acyclic Read/Write Data)		✓
Price/Performance for OEM & Machine Builders		✓
RSLogix™ 5000 configuration		✓
CIP Messaging (better performance, ladder communication)		✓
Lower Cost		✓

General Specifications

- Single Slot - 1769 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.
- Supports all CompactLogix™ processors: L20/L30/L31/L32/L35 and L43 (L43 supported with RSLogix™ 5000 v16)
- Also supports MicroLogix™ 1500 LRP

Functional Specifications

Specification	Description
Input data	max. 244 Bytes
Output data	max. 244 Bytes
DPV1 services	Read / Write class 1, Alarm
GSD file	PSFT097A.gsd

Up to 32 PROFIBUS devices can be connected to one bus segment. If several bus segments are linked to each other with repeaters, there can be up to 127 devices on the network.

Hardware Specifications

Specification	Description
Processor	EC1-160P with integrated ASPC2
PROFIBUS Interface	RS-485, max. 12 Mbps, potential free, according EN 50170
Diagnostic Interface	RS-232, PS/2 Mini DIN female connector, 9600 Baud, non isolated
Power Supply	+5 V ±5 % / 260 mA
Max. Distance Rating	max. 6 modules to the power supply module
Dimensions	Standard 1769 Single-slot module
Burst	EN 61000-4-4, 2 kV, 5 kHz
Surge	EN 61000-4-5, 2 kV common mode, 1 kV differential mode
ESD	EN 61000-4-2, 4 kV contact, 8 kV air, 4 kV indirect
Radiated/ Conducted Immunity	EN 61000-4-3, 10 V/m, 30...1000 MHz, 80% AM, 1 kHz sinewave EN 61000-4-6, 10 V, 0,15...30 MHz
Radiated/ Conducted Emission	EN 55011 Class A
Vibration/Shock	IEC 600068-2-6, 10-150 Hz, ± 0,75 mm, ± 1 g, 1 Octave/min IEC 600068-2-27, 15 g, 11 ms
Operating Temp.	0 to 60°C (32 to 140°F)
Relative Humidity	5 to 95% (non-condensing)
Agency Certification: UL/CE	C-UL certified, UL 508 listed, CE
PROFIBUS conformance	certified

(*) Can differ on different type of CompactLogix Controller and depends on total amount of I/O data of a CompactLogix System.

Additional Products

ProSoft Technology® offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms.

MVI69-PDPMV1 - PROFIBUS DPV1 Master Communication Module
PS69-DPM - PROFIBUS DPV1 Master Communication Module
6104-WA-PDPM - Wireless PROFIBUS Master
6105-WA-PDPS - Wireless PROFIBUS Slave

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:

PS69-DPS	PROFIBUS DPV1 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

Distributors:
Place your order by email or fax to:

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June 05, 2008