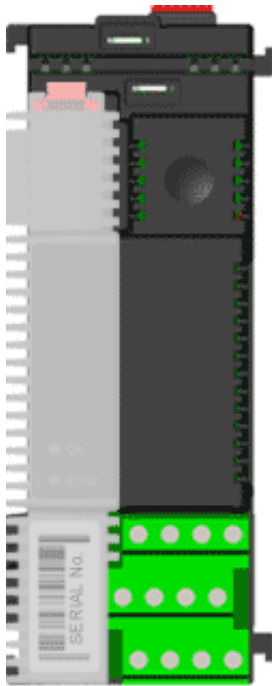


Base Modules

PD Series 600



Module Structure

PD 600 series DPIs and I/O devices are made up of two parts – the Terminal Base Module and the Electronics Module.

Electronics and Base Combinations

When forming clusters of 600 series modules, it needs to be ensured that the base module used matches the electronics module, in terms of the input and output terminals required. Whilst connectors between electronics and base modules are keyed to prevent incorrect combinations, it should be understood that certain electronics units can be plugged into more than one base module type, in order to provide a variation in input/output connections. For example, a PD 601 DPI electronics unit can use a BM 003 or BM 011 base module, depending whether RJ45 or screw connections are required. Another example involves a PD 620 Digital I/O electronics module, where when combined

with a BM 001 base provides 4 input or output terminals, but if combined with a BM 008 base, provides four relay output connections.

The table views below, define possible combinations and resultant connections. Since electronics and base modules have individual part numbers, the user should be aware of the connection requirement at time of order.

DPI, SPI and RPI

	BM 002	BM 016* (BM 007) (BM 003)	BM 010	BM 011	BM 012
PD 600 DPI with RS485 Interface	RS-485 P-NET Screw Terminals		RS-485 P-NET Screw Terminals		RS-485 4-Wire P-NET Screw Terminals
PD 601 DPI with RS232 Interface		RS-232 Interface RJ45		RS-232 Interface Screw Terminals	
PD 602 DPI with Ethernet Interface		LAN Interface RJ 45			
PD 661 SPI (Simple P-NET Interface)			RS-485 P-NET Screw Terminals		RS-485 4-Wire P-NET Screw Terminals
PD 662 RPI (Redundant P-NET Inter- face)			2 x RS-485 P-NET Screw Terminals		
PD 663 SPI (Simple P-NET Interface)			RS-485 P-NET Screw Terminals		
PD 667 DPI with RS-485 Interface (Profibus DP-V0 Essential Features Master)	RS-485 P-NET Screw Terminals		RS-485 P-NET Screw Terminals		

*) Recommended

Digital Interface Modules

	BM 004	BM 005	BM 006	BM 008	BM 014 ^{1*} (BM 001)
PD 620 4-Channel Digital IO (Sink w. pullup)				4x Relay Out Screw terminals	4 x IO Screw Terminals
PD 621 6-Channel Digital IO (Sink w. pullup)	4 x Input 2x Relay Out Screw Terminals	6 x Input Screw Terminals	6 x Output Screw Terminals		
PD 622 4-Channel Digital IO (Sink w. pullup)		6 x Input Screw Terminals			

¹) Recommended

Valve Interface Modules

	BM 009	BM 015	BM 019 [*]
PD 625 Valve Control Module	2 x Digital Input or 1 x Analog Input (2k or 10k Ohm Potentiometer) 2 x Relay Out Screw Terminals		
PD 527 Valve Control Module		<p>Control of valve: 2 x Digital Input or 1 x Analog Input (2 k Ohm potentiometer) 2 x Relay Out - the BM015 base module is as standard equipped with a 6A fuse</p> <p>Control from PLC: 2 x Digital Input 2 x Digital Output or 1 x Analog Output (4-20 mA)</p> <p>Other IO: 1 x Digital Input (ESD: Emergency shut down) 1 x Digital Output (Alarm)</p> <p>Screw Terminals</p>	<p>Control of valve: 2 x Digital Input or 1 x Analog Input (2 k Ohm potentiometer) 2 x Relay Out - the BM015 base module is as standard equipped with a 6A fuse</p> <p>Control from PLC: 2 x Digital Input 2 x Digital Output or 1 x Analog Output (4-20 mA)</p> <p>Other IO: 1 x Digital Input (ESD: Emergency shut down) 1 x Digital Output (Alarm)</p> <p>Screw Terminals</p>

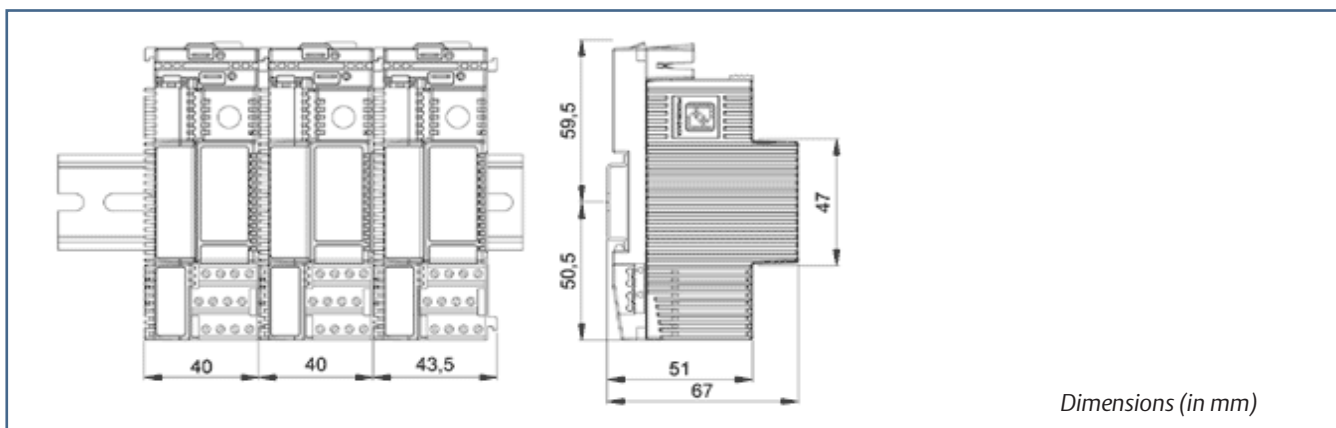
^{*}) Used for reversible condensator motor (460V VDR).

Analog Interface Modules

	BM0013	BM 014 ^(*) (BM 001)
PD 640 2-Channel Analog IO and 2-Channel Analog input (0/4-20 mA)		4 * Current IO Screw Terminals
PD 641 3-Channel Analog Input (Pt100 / Pt1000)	3 * Pt100 / Pt1000 Screw Terminals	
PD 642 4-Channel Analog Input (mV)		4 * Voltage Screw Terminals

^(*) Recommended

Technical Specifications



Weight	80 grams approx.
Power supply	See specification on the electronic module
IO Connector	
Max. current in IO Terminals	2 A
Max. wire-dimension	2.5 mm ²
Cage clamp opening size	2.5 x 1.7 mm
Contact resistance	< 15 M Ohm
Relays	
Contact type	Normally open
Max. current / voltage	max. 6 A 250 V AC or DC (This limit must not be exceeded during cut-in nor during operation)
Powerrail	10 A
RJ 45 Female connector	Use RJ45 male connector with shield.
Operation Temperature	-25 °C to + 70 °C
Storage temperature	-40 °C to + 85 °C

Maritime Approvals

Meets the requirements of all the major international marine classification societies.

For more information see PDS for the PD Serie 600 Introduction.

Emerson Process Management
Damcos A/S
Aaderupvej 41
DK-4700 Naestved
T +45 5578 7200
F +45 5578 7272
www.EmersonProcess.com/mtm

Emerson Process Management
Rosemount Tank Radar AB
Box 13045
SE-40251 Sweden
T +46 31 337 00 00
F +46 31 25 30 22
www.EmersonProcess.com/mtm

©2015 Emerson Process Management. All rights reserved.

The Emerson logo is a trademark and service mark of Emerson Electric Co. Rosemount and the Rosemount logotype are registered trademarks of Rosemount Inc. Damcos and the Damcos logotype are trademarks of Damcos A/S. Damcos A/S and Rosemount Tank Radar AB are members of the Emerson Process Management family of companies. All other marks are the property of their respective owners.

The contents of this publication are presented for information purposes only, and while effort has been made to ensure their 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. All sales are governed by our terms and conditions, which are available on request. We reserve the right to modify or improve the designs or specifications of our products at any time without notice.

Damcos A/S and Rosemount Tank Radar AB accepts no responsibility for any errors that may appear in this publication.

