



ENDRESS & HAUSER PRESSURE TRANSMITTERS

As distributors for Endress & Hauser, the world's largest private instrumentation company, PCI are able to offer a selection from their range of top quality pressure transmitters.

CERABAR M PMP41

An overload-resistant transmitter with metallic polysilicon measuring cell for measuring the gauge and absolute pressure of gases, vapours, liquids and dusts, the Cerabar M PMP41 can be used in all areas of process engineering.

Lightweight yet robust, the PMP41 with its ability to measure process pressures up to 400 bar (6000 psi) and guaranteed resistance to overload up to 4-times nominal pressure (max. 600 bar/9000 psi) represents a compact solution for hygienic conditions.

With its stainless steel housing without dead volume, the Cerabar M fulfils all the special hygienic requirements of the food and pharmaceutical industries. The polyester-epoxy-coated aluminium housing has been field-proven throughout the process industry.

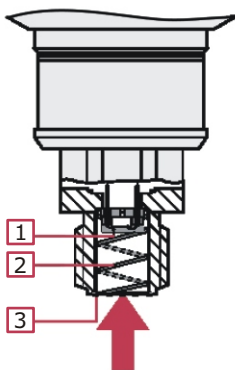


Feature	Standard	Option
Diaphragm Material	316L St. Steel	
Measuring Diaphragm	Flush-mounted	Threaded, welded process adapter
Housing	316L St. Steel	Epoxy-coated aluminium
Display	Blind - no display	LCD 4-digit
Operating Temperature	-40 to + 100°C	
Ambient Temperature	-40 to + 85°C	
Safety Certification	-	EEx ia
Material Certification	-	NACE MR0175 / 3.1.B
Power Supply	11.5 to 45V DC	
Process Connection	½" BSP	Others on request
Cable Entry	M20 x 1.5	½" NPT, ½" BSP
Output	4 - 20mA (Analogue)	4 - 20mA HART® or Profibus
Inaccuracy	<0.2% of adjusted measuring range to TD 10:1	
Fill Fluid	mineral oil	

Type of pressure	Measurement limits	Minimum span	Overload
	bar	bar	bar
gauge	0...+1	0.1	4
gauge	0...+4	0.4	16
gauge	0...+10	1	40
gauge	0...+40*	4	160
gauge	0...+100 *	10	400
gauge	0...+400 *	40	600
gauge	-1...+1	0.2	4
gauge	-1...+4	0.5	16
gauge	-1...+10	1.1	40
absolute	0...+1	0.1	4
absolute	0...+4	0.4	16
absolute	0...+10	1	40
absolute	0...+40	4	160
absolute	0...+100	10	400
absolute	0...+400	40	600

METALLIC POLYSILICON MEASURING CELL

The process pressure deflects the separating diaphragm with a fill fluid transmitting the pressure to a resistance bridge (Polysilicon base). The bridge output voltage, which is proportional to the pressure, is then measured and evaluated.



1. polysilicon measuring element
2. channel with fill fluid
3. flush-mounted diaphragm

Process Pressure

* Absolute pressure sensors



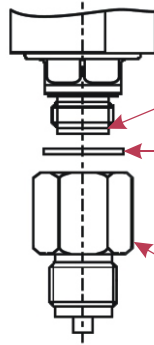


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PROCESS CONNECTION

The diaphragm is mounted flush to a 1/2" BSP thread and a sealing gasket is supplied. An optional adapter is available with a variety of external threads to internalise and protect the diaphragm.

External threads available are: 1/2" BSP M, 1/2" NPT M, 1/2" NPT F, M20 x 1.5. Others may be available on request.



Process connection with flush-mounted diaphragm

Sealing Gasket

Optional threaded adapter for internalising and protecting diaphragm



The PMP41 can be fitted to any of PCi's range of hygienic, chemical and flanged diaphragm seals to extend its range of uses.



ORDERING MATRIX

Locate the order code for your specification and enter it into the appropriate box. See the pressure range codes page for further information.

PRESSURE RANGE B2 B9 P9 B3 BB PB B5 BE PE BH PH BJ PJ BM PM	PRESSURE REFERENCE 1. Gauge 2: Absolute	HOUSING A: St. Steel 316L B: Epoxy-coated	PROCESS ADAPTER 1. None 2: 1/2" BSP M 3: 1/2" NPT M 4: 1/2" NPT F 5: M20 x 1.5	DIAPHRAGM MATERIAL 1: St. Steel 316L 2: Hastelloy C276	DISPLAY A: Standard B: Blind *	OUTPUT A: Analogue B: HART® C: Profibus-PA	CABLE ENTRY 1: M20 x 1.5 2: 1/2" NPT 3: 1/2" BSP	MOUNTING BRACKET A: No B: Yes	SAFETY A: Standard B: EEx ia
QUANTITY	MODEL NO								
	PMP 41								

Empty boxes for entering the complete order number.

Can be fitted with **DS** **FS**

Select the diaphragm seal system you want to have connected to this transmitter and write in the complete order number in the empty matrix above. Together with the transmitter order number this completes the specifications for your instrument.