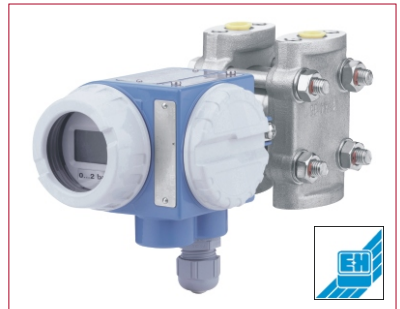


As distributors for Endress & Hauser, the world's largest private instrumentation company, PCI are able to offer a selection from their range of top quality pressure transmitters.

## DELTABAR S PMD235

The Deltabar S PMD235 differential pressure transmitter with metallic sensor can be used for measuring the flow-rate (volumetric or mass) of gases, vapours and liquids, level, volume or mass flow in liquids and the differential pressure monitoring of filters and pumps.

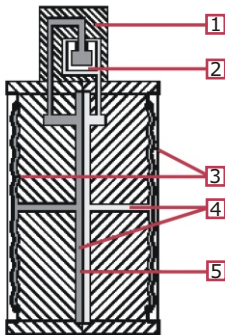
Zero and span both freely adjustable, with or without referential pressure, communication with all standard protocols, an optional four-character pressure display and self-monitoring from sensor to electronics all ensure the PMD235 is simple to operate.



With standard system pressures of 160 and 420 bar and measuring differential pressure from 10 mbar to 40 bar, the PMD235's excellent long-term stability, accuracy, guaranteed resistance to single-side overload and Hastelloy C276 diaphragm as standard make it a robust, reliable and versatile DP solution.

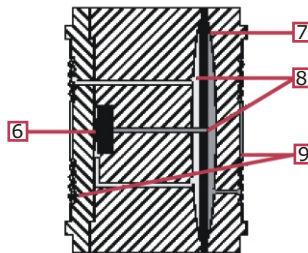
### METAL SENSOR 10 & 40 MBAR

1. Measuring element
2. Silicon diaphragm
3. Separating diaphragm as nap diaphragm extended
4. Fill fluid
5. Integrated overload protection



### METAL SENSOR FROM 100 MBAR

6. Measuring element
7. Overload diaphragm
8. Filling fluid
9. Separating diaphragm as nap diaphragm extended



The separating diaphragm is deflected on both sides by the acting pressure with a filling fluid transmitting the pressure to a resistance bridge whose output voltage, which is proportional to differential pressure, is then measured.

Feature	Standard	Option
<b>Diaphragm Material</b>	C276 Hastelloy	316L St. Steel, Monel, Tantalum
<b>Housing</b>	316L St. Steel	Epoxy-coated aluminium
<b>Mounting Configuration</b>	Horizontal (T5) - top display	Vertical (T4) -side display
<b>Display</b>	Blind - no display	LCD 4-digit
<b>Operating Temperature</b>	-40 to + 120°C	
<b>Ambient Temperature</b>	-40 to + 85°C	
<b>Safety Certification</b>	EEx ia	EEx d
<b>Material Certification</b>	-	NACE MR0175 / 3.1.B
<b>Power Supply</b>	11.5 to 45V DC	
<b>Process Connection</b>	¼" NPT(F) & 7/16" UNF oval flange	Others on request
<b>Cable Entry</b>	M20	Others on request
<b>Output</b>	4 - 20mA (Smart)	
<b>Communication Protocol</b>	HART®	Profibus-PA, Foundation Fieldbus
<b>Inaccuracy</b>	<0.1% of adjusted measuring range to TD 10:1	
<b>Overload</b>	1-sided PN, 2-sided 1.5xPN	
<b>Fill Fluid</b>	Silicone oil	
<b>Min Range</b>	0.5 mbar	





# ENDRESS & HAUSER PRESSURE TRANSMITTERS

## INSTRUMENT LIMITATIONS

Nominal Range	Operating Limits		Rec. Span	
	mbar	LRL (mbar)	URL (mbar)	Min (mbar)
10	-10	10	0.5	10
40	-40	40	2	40
100	-100	100	5	100
160	-160	160	8	160
500	-500	500	25	500
1,000	-1,000	1,000	50	1,000
3,000	-3,000	3,000	150	3,000
6,000	-6,000	6,000	300	6,000
16,000	-16,000	16,000	800	16,000
40,000	-40,000	40,000	2,000	40,000



**Turn down (TD) =**  
**Nominal value / set span**  
**E.g. Nominal value = 3000 mbar**  
**Set span = 1000 mbar**  
**TD = 3:1**



The PMD235 can be fitted to any of PCi's range of hygienic, chemical and flanged diaphragm seals



## 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.

**NOMINAL RANGE**  
**A:** 10mbar **F:** 1bar  
**B:** 40mbar **G:** 3bar  
**C:** 100mbar **H:** 6bar  
**D:** 160mbar **I:** 16bar  
**E:** 500mbar **J:** 40bar

**STATIC PRESSURE**  
**1:** 160bar  
**2:** 420bar

**HOUSING**  
**A:** St. Steel 316L  
**B:** Epoxy-coated

**MOUNTING**  
**T5:** Horizontal  
**T4:** Vertical

**CERTIFICATION**  
**A:** None  
**B:** NACE MR0175 / 3.1.B

**CALIBRATION UNITS**

**1:** mbar/bar  
**2:** kPa/MPa  
**3:** mmH2O  
**4:** inch H2O  
**5:** kgf/cm2  
**6:** psi

**DISPLAY**  
**A:** No display  
**B:** LCD Display

**COMMUNICATION PROTOCOL**  
**A:** HART ®  
**B:** Profibus-PA  
**C:** Fieldbus

**PROCESS CONNECTION**  
**1:** 316L St. Steel  
**2:** Hastelloy C276

**SAFETY**  
**A:** EEx ia  
**B:** EEx d

**DIAPHRAGM MATERIAL**  
**1:** Hastelloy C276  
**2:** St. Steel 316L  
**3:** Monel  
**4:** Tantalum

**QUANTITY**

**MODEL NO**

Ordering matrix row 1:  → **PMD 235** →  →  →  →  →  →  →  →  →  →  →  →  →  →

Ordering matrix row 2:  →  →  →  →  →  →  →  →  →  →  →  →  →  →  →

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.