

# Deltabar PMD50 - differential pressure transmitter

Transmitter with metal membrane for measuring differential pressure, level and flow in liquids and gases



## Benefits:

- Software wizard enables fast and easy commissioning
- Devices developed in accordance with IEC 61508
- Flexible write protection via hardware and/or software wizard
- Pre-assembled manifolds (pressure and leakage-tested) for faster installation

## Specs at a glance

- **Material process membrane** 316L, AlloyC, Gold
- **Measuring cell** 100 mbar...40 bar (1.45 psi...580 psi)

**Field of application:** The Deltabar PMD50 is a differential pressure transmitter with metal membrane for measurement of liquids and gases. It is optimized for standard applications and offers intuitive operating functions.

## Features and specifications

### Pressure

### Measuring principle

Differential pressure

More information and current pricing:

[www.endress.com/PMD50](http://www.endress.com/PMD50)

## Pressure

### Characteristic

Transmitter with metal membrane for differential pressure monitoring in liquids or gases. Intuitive and clear wizard for commissioning.

### Supply voltage

Ex d, Ex e, non-Ex:  
10.5...35V DC  
Ex i: 10.5...30V DC

### Reference Accuracy

Standard:  
up to 0.065 %  
Platinum:  
up to 0.055 %

### Long term stability

0.1 % of URL/ year  
0.2 % of URL/ 5 years  
0.25 % of URL/ 10 years

### Process temperature

-40°C...+110°C  
(-40°F...+230°F)

### Ambient temperature

-40°C...+85°C  
(-40°F...+185°F)

### Measuring cell

100 mbar...40 bar  
(1.45 psi...580 psi)

### Smallest calibratable span

0.3 mbar (0.0043 psi)

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## Pressure

**Vacuum resistance**25 mbar (0.0375 psi)

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**Max. Turn down**20:1

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**Max. overpressure limit**160 bar (2320 psi)

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**Process connection**NPT1/4-18

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**Material process membrane**316L, AlloyC, Gold

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**Material gasket**PTFE, FKM, EPDM, FFKM

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**Fill fluid**Silicone oil,  
Inert oil

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**Material housing**Aluminum, 316L

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**Communication**4...20 mA HART

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**Certificates / Approvals**ATEX, FM, IECEx, JPN Ex,  
INMETRO, NEPSI

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**Safety approvals**SIL

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**Design approvals**EN10204-3.1,  
NACE MR0103,  
NACE MR0175

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## Pressure

### Specialities

Zero/Span buttons,  
Testclamp,  
RFID TAG for easy identification

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## Continuous / Liquids

### Measuring principle

Differential  
pressure

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More information [www.endress.com/PMD50](http://www.endress.com/PMD50)