

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

- **Accuracy** Standard: up to 0.065 % Platinum: up to 0.055 %
- **Process temperature** -40°C...+110°C (-40°F...+230°F)
- **Material process membrane** 316L, AlloyC, Gold
- **Measuring cell** 100 mbar...40 bar (1.45 psi...580 psi)

More information and current pricing:

www.endress.com/PMD50

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

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)

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

Max. Turn down20:1

Max. overpressure limit375 bar (5625 psi)

Process connectionNPT1/4-18

Material process membrane316L, AlloyC, Gold

Material gasketPTFE, FKM, EPDM, FFKM

Fill fluidSilicone oil,
Inert oil

Material housingAluminum, 316L

Communication4...20 mA HART

Certificates / ApprovalsATEX, FM, IECEx, JPN Ex,
INMETRO, NEPSI

Safety approvalsSIL

Design approvalsEN10204-3.1,
NACE MR0103,
NACE MR0175

Pressure

Specialities

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

Continuous / Liquids

Measuring principle

Differential pressure

Characteristic / Application

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

Specialities

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

Supply / Communication

Ex d, Ex e, non-Ex:
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Continuous / Liquids**Ambient temperature**

-40°C...+85°C
(-40°F...+185°F)

Process temperature

-40°C...+110°C
(-40°F...+230°F)

Process connection

NPT1/4-18

Communication

4...20 mA HART

Certificates / Approvals

ATEX, FM, IECEx, JPN Ex,
INMETRO, NEPSI

Safety approvals

SIL

Design approvals

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