

Cerabar PMP50 – pressure transmitter

Pressure transmitter with metal membrane for highly accurate measurement of liquids and gases



More information and current pricing:

www.endress.com/PMP50

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** Standard: -40°C...+125°C (-40°F...+257°F)
Diaphragm seal: -70°C...+400°C (-94°F...+752°F)
- **Material process membrane** 316L, AlloyC, Gold
- **Measuring cell** 1 bar...400 bar (14.5 psi...5800 psi)

Field of application: The Cerabar PMP50 is a pressure transmitter with metal membrane for measurement of liquids and gases. It is optimized for standard applications and offers intuitive and safe operating functions.

Features and specifications

Pressure

Measuring principle

Absolute and gauge pressure

Pressure

Characteristic

Pressure transmitter with metal membrane for accurate measurement in liquids or gases. Available with diaphragm seals. 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

Standard:
-40°C...+125°C
(-40°F...+257°F)
Diaphragm seal:
-70°C...+400°C
(-94°F...+752°F)

Ambient temperature

-40°C...+85°C
(-40°F...+185°F)

Pressure**Measuring cell**

1 bar...400 bar
(14.5 psi...5800 psi)

Smallest calibratable span

20 mbar (0.29 psi)

Vacuum resistance

Standard: 10 mbar (0.145 psi)
Diaphragm seal: 50 mbar (0.725 psi)

Max. Turn down

100:1

Max. overpressure limit

600 bar (9,000 psi)

Process connection

Thread:
G1/2, NPT1/2
Flange:
DN25...DN80,
NPS 1"...3"

Material process membrane

316L, AlloyC, Gold

Material gasket

PTFE

Fill fluid

Silicone oil, high temperature oil,
Inert oil

Material housing

Aluminum, 316L

Pressure

Communication

4...20 mA HART

Certificates / Approvals

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

Safety approvals

SIL

Design approvals

EN10204-3.1,
NACE MR0103,
NACE MR0175

Specialities

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

Continuous / Liquids

Measuring principle

Absolute and gauge pressure

Characteristic / Application

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metal membrane for accurate
measurement in liquids or
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Continuous / Liquids**Supply / Communication**

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