

# 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](http://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

- **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

#### Characteristic

Pressure transmitter with metal membrane for accurate measurement in liquids or gases. Available with diaphragm seals. Intuitive and clear wizard for commissioning.

---

## Pressure

---

### 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)

---

### Measuring cell

1 bar...400 bar

(14.5 psi...5800 psi)

---

### Smallest calibratable span

20 mbar (0.29 psi)

---

### Vacuum resistance

50 mbar (0.73 psi)

---

## Pressure

**Max. Turn down**

20:1

**Max. overpressure limit**

2800 bar (40,610 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

**Communication**

4...20 mA HART

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

SIL

## Pressure

### 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

Pressure transmitter with  
metal membrane for accurate  
measurement in liquids or  
gases.  
Available with diaphragm seals.  
Intuitive and clear wizard for  
commissioning.

### Specialities

zero/span button  
test clamp  
RFID TAG for easy identification

More information [www.endress.com/PMP50](http://www.endress.com/PMP50)