

## Cerabar PMP43 – hygienic pressure transmitter

Particularly compact, highly reliable and the perfect fit for demanding hygienic applications



More information and current pricing:

[www.sg.endress.com/PMP43](http://www.sg.endress.com/PMP43)

### Benefits:

- Outstanding ease of use due to easy setup and operation with guided wizards and intuitive touch display
- Improved process and product safety through configuration integrity - a checksum algorithm (CRC) ensures that safety relevant parameters remain unchanged
- Increased productivity thanks to traceable and documented on-demand verification without process interruption and permanent monitoring of process anomalies or blocked impulse lines with Heartbeat Technology
- 360-degree hygienic design and IP69 ingress protection class enable efficient cleaning and avoid contamination
- Documented compliance through certified hygienic design as well as proven material conformity and traceability

### Specs at a glance

- **Accuracy** Standard 0.1% Platinum 0.075%
- **Process temperature** -40°C...+130°C (-40°F...+266°F) -20°C...+200°C (-4°F...+392°F)
- **Pressure measuring range** 400 mbar...100 bar (6 psi...1450 psi)
- **Material process membrane** 316L
- **Measuring cell** 400 mbar...100 bar (6 psi...1450 psi)

**Field of application:** The Cerabar PMP43 is a pressure transmitter and part of the Compact Line. The product line is especially developed for hygienic applications and combines a compact design with full performance. The proven technology is suitable for the measurement and monitoring of absolute and gauge pressure in liquids and gases.

Thanks to the compact sensor design and small process connections, the device is flexible in scale and can be installed in tight space conditions.

## Features and specifications

### Pressure

#### Measuring principle

Absolute and gauge pressure

#### Characteristic

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

Designed for hygienic applications.

Available with diaphragm seals.

#### Supply voltage

4...20mA HART

11,5...45V DC (Non Ex):

Ex ia: 11,5...30V DC

#### Reference Accuracy

Standard 0.1%

Platinum 0.075%

#### Long term stability

0.1% of URL/year

0.2% of URL/ 5 years

0.25% of URL/ 10 years

#### Process temperature

-40°C...+130°C (-40°F...+266°F)

-20°C...+200°C (-4°F...+392°F)

#### Ambient temperature

-40°C...+85°C

(-40°F...+185°F)

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**Pressure****Measuring cell**

400 mbar...100 bar  
(6 psi...1450 psi)

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**Smallest calibratable span**

20 mbar (0.3 psi)

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**Vacuum resistance**

50 mbar (0.725 psi)

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**Max. Turn down**

20:1

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**Process connection**

Thread:

G1/2...G2, R1/2,  
MNPT3/4...MNPT2, FNPT1/2

Flange:

DN25...DN80,  
NPS 1"...3"

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**Process connection hygienic**

Tri-Clamp

DIN11851

DIN11864-1

NEUMO

Varivent

SMS

DRD

Universal adapter

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**Material process membrane**

316L

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**Material gasket**

None, diaphragm welded

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**Material housing**

316L hygiene

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## Pressure

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### Communication

4...20 mA  
4...20 mA HART  
4...20 mA IO-Link

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### Certificates / Approvals

ATEX, FM, CSA, CSA C/US, IECEx,  
INMETRO, NEPSI, UK Ex

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### Design approvals

EN10204-3.1  
NACE MR0175

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### Hygienic approvals

CoC ASME-BPE  
3A  
EHEDG

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### Drinking water approvals

NSF/ANSI 61  
ACS  
KTW

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## Continuous / Liquids

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### Measuring principle

Absolute and gauge pressure

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### Characteristic / Application

Pressure transmitter with metal membrane  
for accurate measurement in liquids or  
gases.  
Designed for hygienic applications.

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### Supply / Communication

4...20 mA,  
4...20 mA HART

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**Continuous / Liquids****Accuracy**

Standard 0.1%

Platinum 0.075%

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**Long term stability**

0.1% of URL/year

0.2% of URL/ 5 years

0.25% of URL/ 10 years

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**Ambient temperature**

-40°C...+85°C

(-40°F...+185°F)

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**Process temperature**

-40°C...+130°C (-40°F...+266°F)

-20°C...+200°C (-4°F...+392°F)

---

**Pressure measuring range**

400 mbar...100 bar

(6 psi...1450 psi)

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**Process connection**

Thread:

G1/2...G2, R1/2,

MNPT3/4...MNPT2,FNPT1/2

Flange:

DN25...DN80,

NPS 1"...3"

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**Process connection hygienic**

Tri-Clamp

DIN11851

DIN11864-1

NEUMO

Varivent

SMS

DRD

Universal adapter

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**Continuous / Liquids****Communication**

4...20 mA,  
4...20 mA HART  
Bluetooth® wireless  
technology and app (optional)

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**Certificates / Approvals**

ATEX, FM, CSA, CSA C/US, IECEx,  
INMETRO, NEPSI, UK Ex

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**Hygienic approvals**

CoC ASME-BPE  
3A  
EHEDG

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**Marine approval**

GL/ ABS/ LR/ BV/ DNV

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**Drinking water approvals**

NSF

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More information [www.sg.endress.com/PMP43](http://www.sg.endress.com/PMP43)