

Cerabar PMP43 – hygienic pressure transmitter

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



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

More information and current pricing:

www.us.endress.com/PMP43

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: 12...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)

Pressure**Measuring cell**

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

Smallest calibratable span

20 mbar (0.3 psi)

Vacuum resistance

50 mbar (0.725 psi)

Max. Turn down

20:1

Process connection

Thread:

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

Flange:

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

Process connection hygienic

Tri-Clamp

DIN11851

DIN11864-1

NEUMO

Varivent

SMS

DRD

Universal adapter

Material process membrane

316L

Material gasket

None, diaphragm welded

Material housing

316L hygiene

Pressure

Communication

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

Certificates / Approvals

ATEX, FM, CAN/US, IECEx,
INMETRO, NEPSI, UK Ex

Design approvals

EN10204-3.1
NACE MR0175

Hygienic approvals

CoC ASME-BPE
3A
EHEDG

Drinking water approvals

NSF/ANSI 61
ACS
KTW

Continuous / Liquids

Measuring principle

Absolute and gauge pressure

Characteristic / Application

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

Supply / Communication

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

Continuous / Liquids**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

Ambient temperature

-40°C...+85°C

(-40°F...+185°F)

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)

Process connection

Thread:

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

MNPT3/4...MNPT2, FNPT1/2

Flange:

DN25...DN80,

NPS 1"...3"

Process connection hygienic

Tri-Clamp

DIN11851

DIN11864-1

NEUMO

Varivent

SMS

DRD

Universal adapter

Continuous / Liquids**Communication**

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

Certificates / Approvals

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

Hygienic approvals

CoC ASME-BPE
3A
EHEDG

Marine approval

GL/ ABS/ LR/ BV/ DNV

Drinking water approvals

NSF

More information www.us.endress.com/PMP43