

Cerabar PMP71B - druktransmitter

Slimme druktransmitter - de conditie kan zonder procesonderbreking worden geverifieerd



Meer informatie en actuele prijzen:

www.be.endress.com/PMP71B

Voordelen:

- Met Heartbeat Technologie kunt u de conditie van het instrument controleren terwijl het proces loopt.
- Eenvoudige indicatie van de status van het instrument - het display verandert van groen naar rood bij diagnosemeldingen
- Minder systeemstoringen - foutloze SIL-inbedrijfstelling en instrumentgestuurde proof-test
- Draadloze bediening van het instrument in het procesgebied met de SmartBlue-app

Overzicht specificaties

- **Accuracy** Standard: up to 0.05 % Platinum: up to 0.025 %
- **Process temperature** Standard: -40°C...+125°C (-40°F...+257°F)
Diaphragm seal: -40°C...+400°C (-40°F...+752°F)
- **Pressure measuring range** 400 mbar...700 bar (1.5 psi...10,500 psi)
- **Main wetted parts** 316L, AlloyC, Tantal, Monel, PTFE, Gold
- **Material process membrane** 316L, AlloyC, Tantal, Monel, PTFE, Gold

Toepassingsgebied: Deze transmitter behoort tot de nieuwe Cerabar-generatie. De transmitter is robuust en kan op afstand worden bediend via een app op een mobiel instrument middels een beveiligde bluetooth-verbinding. De software maakt een eenvoudige bediening mogelijk. Intuïtieve wizards leiden de gebruiker door de installatie, de proof-test en de verificatie van het instrument. Heartbeat Technology biedt controle- en bewakingsfuncties om ongewenste onregelmatigheden te detecteren, bijv. veranderingen van de luskenmerken.

Kenmerken en specificaties

Pressure

Meetprincipe

Absolute and gauge pressure

Characteristic

Pressure transmitter with metallic process diaphragm.
Available with diaphragm seals.
Device health verification without process interruptions.
Intuitive and clear wizards for commissioning, proof tests and verification.

Supply voltage

4...20 mA HART
Ex d, Ex e, non-Ex:
10.5...35V DC :
Ex i: 10.5...30V DC

Reference Accuracy

Standard:
up to 0.05 %
Platinum:
up to 0.025 %

Long term stability

0.05 % of URL/ year
0.07 % of URL/ 5 years
0.10 % of URL/ 10 years

Process temperature

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

Pressure

Ambient temperature

-60°C...+80°C
(-76°F...+185°F)

Measuring cell

400 mbar...700 bar
(6 psi...10,500 psi)

Smallest calibratable span

5 mbar (0.075 psi)

Vacuum resistance

5 mbar (0.725 psi)

Max. Turn down

100:1

Max. overpressure limit

2,800 bar (40,600 psi)

Process connection

Thread:

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

Flange:

DN25...DN100,
NPS 1"...4"

Pancake: 2"...4", DN50...DN100

Material process membrane

316L, AlloyC,
Tantal, Monel,
PTFE,
Gold

Material gasket

PTFE

Pressure**Fill fluid**

Silicone oil, Inert oil,
Vegetable oil,
High/ low temperature oil

Material housing

Aluminium,
316L

Communication

4...20 mA HART

Certificates / Approvals

ATEX, CSA, IECEx, JPN Ex, INMETRO, NEPSI, UK Ex

Safety approvals

SIL

Design approvals

EN10204-3.1,
NACE MR0103,
NACE MR0175

Marine approvals

Marine approvals

Drinking water approvals

NSF

Specialities

Heartbeat Technology,
Bluetooth® Operation and maintenance SmartBlue App,
LED Module,
RFID TAG for easy identification,
Plug and play functionalities,
HistoROM

Continuous / Liquids

Meetprincipe

Absolute and gauge pressure

Characteristic / Application

Pressure transmitter with metallic process diaphragm.
Available with diaphragm seals.
Device health verification without process interruptions.
Intuitive and clear wizards for commissioning, proof tests and verification.

Specialities

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Supply / Communication

Ex d, Ex e, non-Ex:
10.5...35V DC
Ex i: 10.5...30V DC

Accuracy

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up to 0.05 %
Platinum:
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Long term stability

0.05 % of URL/ year
0.07 % of URL/ 5 years
0.10 % of URL/ 10 years

Ambient temperature

-60°C...+80°C
(-76°F...+185°F)

Continuous / Liquids**Process temperature**

Standard:

-40°C...+125°C

(-40°F...+257°F)

Diaphragm seal:

-40°C...+400°C

(-40°F...+752°F)

Process pressure / max. overpressure limit

700 bar

(10,500 psi)

Pressure measuring range

400 mbar...700 bar

(1.5 psi...10,500 psi)

Main wetted parts

316L, AlloyC,

Tantal, Monel,

PTFE, Gold

Process connection

Thread:

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

FNPT1/2, R1/2

Flange:

DN25...DN100,

NPS 1"...4"

Pancake: 2"...4", DN50...DN100

Max. meetafstand7000 m (22,966 ft) H₂O

Communication

4...20 mA HART

Certificates / Approvals

ATEX, IEC Ex, CSA C/US, NEPSI

Continuous / Liquids**Safety approvals**

SIL

Design approvalsEN 10204-3.1
NACE MR0175,
NACE MR0103

Marine approval

Marine approval

Drinking water approvals

NSF

Metrological approvals and certificates

MID

OptionsTouch control display
Diaphragm seal

Application limitsMeasuring cell: Metal
welded
If pressurized, possibly
use differential pressure
measurement with two
pressure transmitters
(electronic dp). Observe
ratio head pressure:
hydrostatic pressure

Meer informatie www.be.endress.com/PMP71B