Absolute and gauge pressure Cerabar PMP75

Digital pressure transmitter with fully welded diaphragm seal for measurement in gases or liquids

Daha fazla bilgi ve güncel fiyatlandırma:
www.tr.endress.com/PMP75

Avantajlar:

- Large variety of different process connections and membrane materials
- New TempC Membrane minimizes influences of ambient and process temperature fluctuations
- HistoROM data management concept for fast and easy commissioning, maintenance and diagnostics
- Easy menu-guided commissioning via local display, 4 to 20mA with HART, PROFIBUS PA, FOUNDATION Fieldbus
- Highest safety due to gas tight feedthrough with capabilities up to SIL2/3, certified to IEC 61508
- Cost savings with modular concept for easy replacement of sensor, display or electronics
- Overload-resistant and function-monitored from the measuring cell to the electronics

Özelliklere genel bakış

- **Accuracy** 0,075% + influence of diaphragm seal
- **Process temperature** -70°C...400°C (-94°F...752°F)
- **Pressure measuring range** 400 mbar...400 bar (6 psi...6000 psi)
- **Process pressure / max. overpressure limit** 1050bar (15,200psi)
- **Main wetted parts** Alloy C276 316L Monel Tantalum PTFE-Foil

Uygulama alanı: The Cerabar PMP75 digital pressure transmitter with metal diaphragm seal is typically used in process and hygiene applications for pressure, level, volume or mass measurement in liquids or gases. Suitable for high pressure as well as extreme process

temperature applications from -70 up to +400°C (-94 to 750°F). Quick Setup with adjustable measuring range allows simple commissioning, reduces costs and saves time. Designed according to IEC 61508 for use in SIL2/3 safety applications.

Özellikler ve şartlar

Pressure

Measuring principle

Absolute and gauge pressure

Characteristic

Digital transmitter with piezoresistive sensor and diaphragm seal
Modular transmitter
Long term stability
Minimum oil volume process connection
Enhanced safety via self diagnostic functions
Secondary process barrier

Supply voltage

4...20 mA HART
10,5...45V DC (Non Ex):
Ex ia: 10,5...30V DC
PROFIBUS PA:
9...32 V DC (Non Ex)
FOUNDATION Fieldbus:
9...32 V DC (Non Ex)

Reference Accuracy

0,075% + influence of diaphragm seal

Long term stability

0.05 % of URL/ year
0.07 % of URL/ 5 years
0.1 % of URL/ 10 years

Pressure

Process temperature
-70°C...400°C
(-94°F...752°F)

Ambient temperature
-50°C...85°C
(-58°F...185°F)

Measuring cell
400 mbar...400 bar
(6 psi...6000 psi)
relative/ absolute

Smallest calibratable span
5 mbar (0.075 psi)

Vacuum resistance
10 mbar (0.15 psi)

Max. Turn down
100:1

Max. overpressure limit
1050 bar (15.750 psi)

Process connection
Thread:
G1/2...G2, R1/2, MNPT1/2...MNPT2, NPT1/2...NPT1
Flange:
DN25...DN100,
ASME 1"...4",
JIS 10K
Diaphragm seal

Pressure

Process connection hygienic

Tri-Clamp
DIN11851
NEUMO
Varivent
SMS
DRD
Universal adapter

Material process membrane

316L, AlloyC,
Tantal
Rhodium> Gold
PTFE

Material gasket

None, diaphragm welded

Fill fluid

Silicone oil,
Inert oil,
Vegetable oil,
High temperature oil,
Low temperature oil,

Material housing

Die-cast aluminum,
AISI 316L

Communication

4...20 mA HART
PROFIBUS PA
FOUNDATION Fieldbus

Certificates / Approvals

ATEX, CSA C/US, IEC Ex, JPN Ex, INMETRO, NEPSI, EAC

Pressure

Safety approvals
SIL

Design approvals
EN10204-3.1
NACE MR0103

Hygienic approvals
3A, EHEDG

Marine approvals
GL/ ABS

Specialities
Diagnostic functions
TempC Membrane

Successor
PMP71B

Continuous / Liquids

Measuring principle
Absolute and gauge pressure

Characteristic / Application
Digital transmitter with piezoresistive sensor and diaphragm seal
Modular transmitter
Long term stability
Minimum oil volume
Enhanced safety via self diagnostic functions
Secondary process barrier

Specialities
Diagnostic functionalities
Different languages in software

Continuous / Liquids

Supply / Communication
4...20mA HART:
10,5...45V DC
Ex ia: 10,5...30V DC
PROFIBUS PA /
FOUNDATION Fieldbus:
9...32V DC

Accuracy
0,075% + influence of diaphragm seal

Long term stability
0,05% of URL/year

Ambient temperature
-50°C...85°C
(-58°F...185°F)

Process temperature
-70°C...400°C
(-94°F...752°F)

Process pressure / max. overpressure limit
1050bar (15,200psi)

Pressure measuring range
400 mbar...400 bar
(6 psi...6000 psi)

Main wetted parts
Alloy C276
316L
Monel
Tantalum
PTFE-Foil

Continuous / Liquids

Process connection
Threads
Flanges (DIN, ASME, JIS) with flush membrane
Tri-Clamp ISO02852
Hygienic connections

Max. measurement distance
7000m (22.966ft) H2O

Communication
4...20 mA HART
PROFIBUS PA
FOUNDATION Fieldbus

Certificates / Approvals
ATEX, FM, CSA, CSA C/US, IEC Ex, JPN Ex, INMETRO, NEPSI, EAC

Safety approvals
SIL

Design approvals
EN 10204-3.1
NACE MR0175, MR0103

Hygienic approvals
3A, EHEDG

Marine approval
GL/ ABS

Options
HistoROM/M-Dat
4-line digital display
SS- or Aluminiumhousing
Separate housing

Successor
PMP71B

Continuous / Liquids

Application limits

Measuring cell: Metal welded
If pressurized, possibly use differential pressure meas-urement with two pressure transmitters (electronic dp). Observe ratio head pressure : hydrostatic pressure

Ayrıntılı bilgi **www.tr.endress.com/PMP75**

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