

Cerabar PMP51B Transmissor de pressão

Transmissor de pressão inteligente com membrana de metal para medições altamente precisas de líquidos e gases



Mais informações e preço atual:

www.br.endress.com/PMP51B

Benefícios:

- Redução de falhas sistemáticas - comissionamento livre de erros e teste funcional guiado SIL do instrumento
- Reduza os acidentes locais e proteja os equipamentos quando o instrumento estiver em áreas de difícil acesso
- Controle sem fio do equipamento na área de processo com o aplicativo SmartBlue sem interrupção do processo

Especificações resumidas

- **Accuracy Standard:** up to 0.075 % Platinum up to 0.055 %
- **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... 400 bar (6psi...6,000psi)
- **Main wetted parts** 316L, AlloyC, Tantal, Monel, PTFE
- **Material process membrane** 316L, AlloyC, Tantal, Monel, PTFE

Campo de aplicação: Este transmissor pertence à nova geração Cerabar. Ele combina robustez com diversos benefícios: por exemplo, operação local ou remota muito fácil e manutenção baseada em condições, o que promove melhor gestão dos desligamentos programados da fábrica. O software foi desenvolvido para simplificar o manuseio. Assistentes intuitivos e claros guiam o usuário pelo comissionamento e testes funcionais do equipamento. O transmissor pode ser controlado remotamente através do aplicativo para celular e uma conexão Bluetooth segura.

Características e especificações

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

Supply voltage

Ex d, Ex e, non-Ex:

10.5...35V DC

Ex i: 10.5...30V DC

Reference Accuracy

Standard:

up to 0.075 %

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:

-40°C...+400°C

(-40°F...+752°F)

Ambient temperature

-40°C...+85°C

(-40°F...+185°F)

Pressure**Measuring cell**

400 mbar...400 bar
(6psi...6,000psi)

Smallest calibratable span

20 mbar (0.3 psi)

Vacuum resistance

50 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

Flange:

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

Process connection hygienic

Process connection hygienic

Material process membrane

316L, AlloyC,
Tantal, Monel,
PTFE

Material gasket

PTFE

Fill fluid

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

Pressure

Material housing

Aluminium

Communication

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

Certificates / Approvals

ATEX, IEC Ex, CSA C/US, NEPSI

Safety approvals

SIL

Design approvals

EN10204-3.1,
NACE MR0175,
NACE MR0103

Hygienic approvals

Hygienic approvals

Marine approvals

Marine approvals

Drinking water approvals

NSF

Specialities

Bluetooth® Operation and maintenance SmartBlue App,
RFID TAG for easy identification,
Plug and play functionalities

Continuous / Liquids

Measuring principle

Absolute and gauge pressure

Continuous / Liquids

Characteristic / Application

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

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Specialities

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Plug and play functionalities

Supply / Communication

Ex d, Ex e, non-Ex:

10.5...35V DC

Ex i: 10.5...30V DC

Accuracy

Standard:

up to 0.075 %

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

Ambient temperature

-40°C...+85°C

(-40°F...+185°F)

Process temperature

Standard:

-40°C...+125°C

(-40°F...+257°F)

Diaphragm seal:

-40°C...+400°C

(-40°F...+752°F)

Continuous / Liquids**Process pressure absolute / max. overpressure limit**700 bar (10,500 psi)

Pressure measuring range400 mbar... 400 bar
(6psi...6,000psi)

Main wetted parts316L, AlloyC,
Tantal, Monel,
PTFE

Process connection

Thread:

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

Flange:

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

Max. measurement distance4000 m (13,123 ft) H2O

Communication

4...20 mA,

4...20 mA HART

Certificates / ApprovalsATEX, IEC Ex, CSA C/US, NEPSI

Safety approvalsSIL

Design approvalsEN 10204-3.1
NACE MR0175,
NACE MR0103,
AD2000

Continuous / Liquids

Hygienic approvals

Hygienic approvals

Marine approval

Marine approval

Drinking water approvals

NSF

Options

Diaphragm seal

Application limits

Measuring cell: Metal welded

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

Mais informações www.br.endress.com/PMP51B