

Cerabar PMC51B - transmissor de pressão

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



Mais informações e preço atual:

www.br.endress.com/PMC51B

Benefícios:

- Controle sem fio do equipamento na área de processo com o aplicativo SmartBlue. Não é necessário interromper o processo.
- Reduza falhas sistemáticas - comissionamento livre de erros SIL e testes funcionais guiados dos instrumentos
- Reduza os acidentes locais e proteja os equipamentos quando o instrumento estiver em áreas de difícil acesso

Especificações resumidas

- **Accuracy Standard:** up to 0.075 % Platinum: up to 0.055 %
- **Process temperature** -40°C...+100°C (-40°F...+212°F)
- **Pressure measuring range** 100 mbar...40 bar (1.5 psi...600 psi)
- **Main wetted parts** Ceraphire ceramic FKM, EPDM, HNBR, Perlast, Kalrez
- **Material process membrane** Ceramic

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 software foi desenvolvido para simplificar o manuseio. Assistentes intuitivos guiam o usuário pelo comissionamento e testes funcionais do equipamento, o que minimiza erros de operação. 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 ceramic process membran for accurate measurement in liquid or gases.

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

0.10% of URL/ year

0.25% of URL/ 5 years

0.40% of URL/ 10 years

Process temperature

-40°C...+100°C

(-40°F...+212°F)

Pressure**Ambient temperature**

-40°C...+85°C
(-40°F...+185°F)

Measuring cell

100 mbar...40 bar

(1.5 psi...600 psi)

Smallest calibratable span

5 mbar (0.075 psi)

Vacuum resistance

up to 100°C (212°F)

Max. Turn down

100:1

Max. overpressure limit

60 bar (900 psi)

Process connection

Thread:

G1/2...G2, R1/2, MNPT1/2...MNPT2,

FNPT1/2

Flange:

DN25...DN80,

NPS 1"...4"

Material process membrane

Ceramic

Material gasket

FKM, EPDM, HNBR, FFKM

Pressure**Fill fluid**

none, dry measuring cell

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

Drinking water approvals

NSF, KTW

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 ceramic process membran for accurate measurement in liquid or gases.

Intuitive and clear wizard for commissioning

Specialities

Bluetooth® Operation and maintenance SmartBlue App,

RFID TAG for easy identification,

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

0.10 % of URL/ year

0.25 % of URL/ 5 years

0.40 % of URL/ 10 years

Continuous / Liquids**Ambient temperature**

-40°C...+85°C

(-40°F...+185°F)

Process temperature

-40°C...+100°C

(-40°F...+212°F)

Process pressure absolute / max. overpressure limit

40 bar (600 psi)

Pressure measuring range

100 mbar...40 bar

(1.5 psi...600 psi)

Main wetted parts

Ceraphire ceramic

FKM, EPDM, HNBR,

Perlast, Kalrez

Process connection

Thread:

G1/2...G2, R1/2, MNPT1/2...MNPT2, FNPT1/2

Flange:

DN25...DN80,

NPS 1"...4"

Max. measurement distance400 m (1312 ft) H₂O

Continuous / Liquids**Communication**

4...20 mA,

4...20 mA HART

Certificates / Approvals

ATEX, IEC Ex, CSA C/US, NEPSI

Safety approvals

SIL

Design approvals

EN 10204-3.1

NACE MR0175,

NACE MR0103

Drinking water approvals

NSF, KTW

Application limits

Measuring cell: ceramics

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/PMC51B