

## Cerabar PMP71B - transmissor de pressão

Transmissor de pressão inteligente - sua saúde pode ser verificada sem interrupção do processo



Mais informações e preço atual:

[www.br.endress.com/PMP71B](http://www.br.endress.com/PMP71B)

### Benefícios:

- Com a Heartbeat Technology, você pode verificar a saúde de seu equipamento no decorrer do processo.
- Indicação simples de status do equipamento - o display muda de verde para vermelho quando ocorre uma mensagem de diagnóstico
- Redução de falhas sistemáticas - comissionamento livre de erros e teste funcional guiado SIL do instrumento
- Controle sem fio do equipamento na área de processo com o aplicativo SmartBlue

### Especificações resumidas

- **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

**Campo de aplicação:** Este transmissor pertence à nova geração Cerabar. O transmissor é robusto e pode ser controlado remotamente através de aplicativo em um dispositivo móvel usando uma conexão Bluetooth segura. O software foi desenvolvido para simplificar o manuseio. Assistentes intuitivos guiam o usuário através das configurações, testes funcionais e verificações do equipamento. A Heartbeat Technology

oferece funções de verificação e monitoramento para detectar anomalias indesejadas, por exemplo, mudanças nas características dos ciclos.

## Características e especificações

### Continuous / Liquids

#### Measuring principle

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

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

#### Supply / Communication

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

#### 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

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**Continuous / Liquids****Ambient temperature**

-60°C...+80°C  
(-76°F...+185°F)

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**Process temperature**

Standard:

-40°C...+125°C  
(-40°F...+257°F)

Diaphragm seal:

-40°C...+400°C  
(-40°F...+752°F)

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**Process pressure absolute / max. overpressure limit**

700 bar  
(10,500 psi)

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**Pressure measuring range**

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

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**Main wetted parts**

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

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**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

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**Max. measurement distance**

7000 m (22,966 ft) H<sub>2</sub>O

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**Continuous / Liquids****Communication**4...20 mA HART

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**Certificates / Approvals**ATEX, IEC Ex, CSA C/US, NEPSI

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**Safety approvals**SIL

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**Design approvals**EN 10204-3.1  
NACE MR0175,  
NACE MR0103

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**Marine approval**Marine approval

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**Drinking water approvals**NSF

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**Metrological approvals and certificates**MID

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**Options**Touch control display  
Diaphragm seal

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**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

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## Pressure

### Measuring principle

Absolute and gauge pressure

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### 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.

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### Supply voltage

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

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### Reference Accuracy

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

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### Long term stability

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

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### Process temperature

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

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### Ambient temperature

-60°C...+80°C  
(-76°F...+185°F)

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**Pressure****Measuring cell**

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

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**Smallest calibratable span**

5 mbar (0.075 psi)

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**Vacuum resistance**

5 mbar (0.725 psi)

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**Max. Turn down**

100:1

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**Max. overpressure limit**

2,800 bar (40,600 psi)

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**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

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**Material process membrane**

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

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**Material gasket**

PTFE

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**Fill fluid**

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

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**Pressure****Material housing**

Aluminium,  
316L

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**Communication**

4...20 mA HART

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**Certificates / Approvals**

ATEX, IEC Ex, CSA C/US, NEPSI

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**Safety approvals**

SIL

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**Design approvals**

EN10204-3.1,  
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**Marine approvals**

Marine approvals

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**Drinking water approvals**

NSF

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**Specialities**

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