

# Deltabar PMD55B - transmissor de pressão diferencial

Transmissor inteligente com membrana metálica para monitoramento da pressão diferencial em líquidos e gases



Mais informações e preço atual:

[www.br.endress.com/PMD55B](http://www.br.endress.com/PMD55B)

## Benefícios:

- Controle sem fio do equipamento na área de processo com o aplicativo SmartBlue sem interrupção do processo
- Reduz os acidentes no local e protege equipamentos quando os instrumentos estão em áreas de difícil acesso
- Reduz falhas sistemáticas - comissionamento sem erros de SIL e teste guiado do instrumento

## Especificações resumidas

- **Accuracy Standard:** up to 0.075 % Platinum: up to 0.055 %
- **Process temperature** -40°C...+110°C (-40°F...+230°F)
- **Pressure measuring range** 30 mbar.... 40 bar (0.45 psi... 600 psi)
- **Main wetted parts** 316L, AlloyC
- **Material process membrane** 316L, AlloyC

**Campo de aplicação:** Esse transmissor pertence à nova geração Deltabar. Ele é robusto e fácil de operar seja no local ou remotamente. O transmissor pode ser controlado sem fio através do aplicativo para telefones celulares usando uma conexão Bluetooth segura. O PMD55B permite a manutenção baseada em condições, o que aumenta a eficiência do serviço técnico significativamente. O software foi desenvolvido para simplificar o manuseio. O assistente intuitivo guia o usuário pela configuração e teste do equipamento, o que minimiza erros de operação.

## Características e especificações

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**Pressure****Measuring principle**Differential pressure

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**Characteristic**

Transmitter with metal membrane for differential pressure monitoring in liquids or gases.

Intuitive and clear wizard for commissioning

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**Supply voltage**

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 0.075 %

Platinum:

up to 0.055 %

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**Long term stability**

0.05 % of URL/ year

0.13 % of URL/ 5 years

0.23 % of URL/ 10 years

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**Process temperature**

-40°C...+110°C

(-40°F...+230°F)

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## Pressure

**Ambient temperature**

-40°C...+85°C  
(-40°F...+185°F)

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**Measuring cell**

30 mbar...40 bar  
(0.45 psi...600 psi)

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**Smallest calibratable span**

0.3 mbar (0.0045 psi)

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**Max. Turn down**

100:1

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**Max. overpressure limit**

250 bar (3750 psi)

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**Process connection**

NPT1/4-18,

RC1/4"

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**Material process membrane**

316L, AlloyC

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**Material gasket**

PTFE, FKM, EPDM, FFKM

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**Fill fluid**

Silicone oil,

Inert oil

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**Material housing**

Aluminium

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**Communication**

4...20 mA HART

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## Pressure

**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,

NACE MR0175,

NACE MR0103

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**Drinking water approvals**

NSF, KTW

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**Specialities**

Bluetooth® Operation and maintenance SmartBlue App,

RFID TAG for easy identification,

Plug and play functionalities

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## Continuous / Liquids

**Measuring principle**

Differential pressure

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**Characteristic / Application**

Transmitter with metal membrane for differential pressure monitoring in liquids or gases.

Intuitive and clear wizard for commissioning

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**Continuous / Liquids****Specialities**

Bluetooth® Operation and maintenance with SmartBlue App,

RFID TAG for easy identification,

Plug and play functionalities

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**Supply / Communication**

Ex d, Ex e, non-Ex::

10.5...35V DC

Ex i: 10.5...30V DC

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**Accuracy**

Standard:

up to 0.075 %

Platinum:

up to 0.055 %

---

**Long term stability**

0.05 % of URL/ year

0.13 % of URL/ 5 years

0.23 % of URL/ 10 years

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**Ambient temperature**

-40°C...+85°C (-40°F...+185°F)

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**Process temperature**

-40°C...+110°C (-40°F...+230°F)

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

250 bar (3750 psi)

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**Continuous / Liquids****Pressure measuring range**30 mbar.... 40 bar (0.45 psi... 600 psi)

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**Main wetted parts**316L, AlloyC

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**Process connection**NPT 1/4-18, RC1/4"

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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**

EN 10204-3.1,

NACE MR0175,

NACE MR0103,

AD2000

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**Drinking water approvals**NSF, KTW

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**Application limits**None

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