

Deltabar PMD55B - differential pressure transmitter

Smart transmitter with metal membrane for differential pressure monitoring in liquids and gases



Daha fazla bilgi ve güncel fiyatlandırma:

www.tr.endress.com/PMD55B

Avantajlar:

- Wireless control of the device in the process area with the SmartBlue App without interrupting the process
- Reduce on site accidents and protect equipment when instruments are in difficult to reach areas
- Reduce systematic failures - error free SIL commissioning and instrument guided proof testing

Özelliklere genel bakış

- **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

Uygulama alanı: This transmitter belongs to the new Deltabar generation. It is robust and easy to operate either locally or remotely. The transmitter can be controlled wireless via app on a mobile device using a secure Bluetooth connection. The PMD55B allows condition-based maintenance which increases efficiency in technical service significantly. The software is designed to simplify the handling. Intuitive wizards guide you through the setup and proof testing of the device which minimizes operating errors.

Özellikler ve şartlar

Steam**Measuring principle**

Differential
pressure

Pressure**Measuring principle**

Differential pressure

Characteristic

Transmitter with metal membrane for differential pressure monitoring in liquids 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

0.05 % of URL/ year
0.13 % of URL/ 5 years
0.23 % of URL/ 10 years

Process temperature

-40°C...+110°C
(-40°F...+230°F)

Ambient temperature

-40°C...+85°C
(-40°F...+185°F)

Pressure**Measuring cell**

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

Smallest calibratable span

0.3 mbar (0.0045 psi)

Max. Turn down

100:1

Max. overpressure limit

250 bar (3750 psi)

Process connection

NPT1/4-18,
RC1/4"

Material process membrane

316L, AlloyC

Material gasket

PTFE, FKM, EPDM, FFKM

Fill fluid

Silicone oil,
Inert oil

Material housing

Aluminium

Communication

4...20 mA HART

Certificates / Approvals

ATEX, CSA, IECEx, JPN Ex, INMETRO, NEPSI, UK Ex

Safety approvals

SIL

Pressure

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

Liquids

Measuring principle

Differential pressure

Product headline

Transmitter with metal membrane for differential pressure monitoring in liquids or gases.
Intuitive and clear wizard for commissioning

Sensor features

Fill fluid:
Inert oil,
Silicone oil

Transmitter features

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

Wetted materials

316L, Alloy

Measuring range

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

Liquids

Medium temperature range

-40°C...+110°C
(-40°F...+230°F)

Ambient temperature range

-40°C...+85°C
(-40°F...+185°F)

Transmitter housing material

Aluminium

Display/Operation

Configuration via local display and operating tools possible
Remote display available

Outputs

4...20 mA HART

Digital communication

HART

Hazardous area approvals

ATEX, CSA, IECEx

Functional safety

SIL

Material certificates

EN10204-3.1,
NACE MR0175,
NACE MR0103

Continuous / Liquids

Measuring principle

Differential pressure

Continuous / Liquids**Characteristic / Application**

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

Intuitive and clear wizard for commissioning

Specialities

Bluetooth® Operation and maintenance with 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

0.05 % of URL/ year

0.13 % of URL/ 5 years

0.23 % of URL/ 10 years

Ambient temperature

-40°C...+85°C (-40°F...+185°F)

Process temperature

-40°C...+110°C (-40°F...+230°F)

Process pressure absolute / max. overpressure limit

250 bar (3750 psi)

Pressure measuring range

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

Continuous / Liquids**Main wetted parts**

316L, AlloyC

Process connection

NPT 1/4-18, RC1/4"

Communication

4...20 mA HART

Certificates / Approvals

ATEX, CSA, IECEx, JPN Ex, INMETRO, NEPSI, UK Ex

Safety approvals

SIL

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

Drinking water approvals

NSF, KTW

Application limits

None

Gas**Measuring principle**

Differential pressure

Product headline

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

Intuitive and clear wizard for Commissioning

Gas

Sensor features

Fill fluid:
Inert oil,
Silicone oil

Transmitter features

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

Wetted materials

316L, Alloy

Measuring range

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

Medium temperature range

-40°C...+110°C
(-40°F...+230°F)

Ambient temperature range

-40°C...+85°C
(-40°F...+185°F)

Transmitter housing material

Aluminium

Display/Operation

Configuration via local display and operating tools possible
Remote display available

Outputs

4...20 mA HART

Digital communication

HART

Gas

Hazardous area approvals

ATEX, CSA, IECEx, JPN Ex, INMETRO, NEPSI, UK Ex

Functional safety

SIL

Material certificates

EN10204-3.1,
NACE MR0175,
NACE MR0103
AD2000

Ayrıntılı bilgi www.tr.endress.com/PMD55B