

Deltabar PMD75B - differential pressure transmitter

Smart pressure transmitter which detects process anomalies like plugged impulse lines



More information and current pricing:

www.at.endress.com/PMD75B

Benefits:

- With Heartbeat Technology you are able to verify the health of the device while the process is running. This increases plant availability.
- Simple indication of device status - display changes from green to red when diagnostic messages occur
- Reduce systematic failures - error free SIL commissioning and instrument guided proof testing
- Control the device wireless in hard to reach process areas with the SmartBlue App

Specs at a glance

- **Accuracy** Standard: up to 0.05 % Platinum: up to 0.035 %
- **Process temperature** -40°C...+110°C (-40°F...+230°F)
- **Pressure measuring range** 10 mbar....40 bar (0.15 psi....600 psi)
- **Main wetted parts** 316L, AlloyC, Tantal, Monel, Gold
- **Material process membrane** 316L, AlloyC, Tantal, Monel, Gold

Field of application: This transmitter belongs to the new Deltabar generation. The device is robust and can be remotely controlled via SmartBlue App using a secure Bluetooth connection. It allows condition based maintenance to increase plant availability. The software is designed to simplify the handling. Intuitive wizards guide the user through setup, proof tests and verification of the device. Heartbeat Technology offers verification and monitoring functions to detect unwanted anomalies e.g. plugged impulse lines.

Features and specifications

Continuous / Liquids

Measuring principle

Differential pressure

Characteristic / Application

Differential pressure transmitter which detects process anomalies like plugged impulse lines.

Intuitive and clear wizards for commissioning, proof tests and verification.

Specialities

Heartbeat Technology,

Bluetooth® Operation and maintenance with 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

Continuous / Liquids**Accuracy**

Standard:

up to 0.05 %

Platinum:

up to 0.035 %

Long term stability

0.025 % of URL/ year

0.05 % of URL/ 5 years

0.10 % of URL/ 10 years

Ambient temperature

-54°C...+85°C

(-65°F...+185°F)

Process temperature

-40°C...+110°C

(-40°F...+230°F)

Process pressure absolute / max. overpressure limit

420 bar (6300 psi)

Pressure measuring range

10 mbar....40 bar

(0.15 psi....600 psi)

Main wetted parts

316L, AlloyC,

Tantal, Monel,

Gold

Continuous / Liquids**Process connection**

NPT1/4-18,

RC1/4"

Max. measurement distance400 m (1,312 ft) H₂O

Communication

4...20 mA HART

Certificates / Approvals

ATEX, IEC Ex, CSA C/US

Safety approvals

SIL

Design approvals

EN 10204-3.1,

NACE MR0175,

NACE MR0103

Drinking water approvals

NSF, KTW

Options

Touch control display

Application limits

None

Pressure**Measuring principle**

Differential pressure

Pressure

Characteristic

Differential pressure transmitter which detects process anomalies like plugged impulse lines.

Intuitive and clear wizards for commissioning, proof tests and verification.

Supply voltage

Ex d, Ex e, non-Ex:

10.5...35V DC

Ex i: 10.5...30V DC

Reference Accuracy

Standard:

up to 0.05 %

Platinum:

up to 0.035 %

Long term stability

0.025 % of URL/ year

0.05 % of URL/ 5 years

0.10 % 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

10 mbar...40 bar

(0.15 psi...600 psi)

Smallest calibratable span

0.25 mbar (0.00375 psi)

Vacuum resistance

50 mbar (0.73 psi)

Max. Turn down

100:1

Max. overpressure limit

1600 bar (23,200 psi)

Process connection

NPT1/4-18

RC1/4"

Material process membrane

316L, AlloyC,

Tantal,

Monel,

Gold

Material gasket

PTFE, FKM, EPDM, FFKM

Fill fluid

Silicone oil,

Inert oil

Pressure

Material housing

Aluminium, 316L

Communication

4...20 mA HART

Certificates / Approvals

ATEX, IEC Ex, CSA C/US

Safety approvals

SIL

Design approvals

EN10204-3.1,

NACE MR0103,

NACE MR0175

Drinking water approvals

NSF, KTW

Specialities

Heartbeat Technology,

Bluetooth® Operation and maintenance SmartBlue App,

LED Module,

RFID TAG for easy identification,

Plug and play functionalities,

HistoROM

More information www.at.endress.com/PMD75B