Deltabar PMD75B - differential pressure transmitter

Smart pressure transmitter which detects process anomalies like plugged impulse lines

More information and current pricing:
www.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

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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

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)

Continuous / Liquids

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

Process connection
NPT1/4-18,
RC1/4"

Max. measurement distance
400 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

Continuous / Liquids

Options
Touch control display

Application limits
None

Pressure

Measuring principle
Differential 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)

Pressure

Ambient temperature
-40°C...+85°C
(-40°F...+185°F)

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

Material housing
Aluminium, 316L

Pressure

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,
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More information **www.endress.com/PMD75B**

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