

# Deltabar PMD75B - differential pressure transmitter

Smart pressure transmitter which detects process anomalies like plugged impulse lines



More information and current pricing:

[www.us.endress.com/PMD75B](http://www.us.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

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### Characteristic / Application

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

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

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### Specialities

Heartbeat Technology,

Bluetooth® Operation and maintenance with SmartBlue App,

LED Module,

RFID TAG for easy identification,

Plug and play functionalities

HistoROM

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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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**Continuous / Liquids****Accuracy**

Standard:

up to 0.05 %

Platinum:

up to 0.035 %

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**Long term stability**

0.025 % of URL/ year

0.05 % of URL/ 5 years

0.10 % of URL/ 10 years

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**Ambient temperature**

-54°C...+85°C

(-65°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**

420 bar (6300 psi)

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**Pressure measuring range**

10 mbar....40 bar

(0.15 psi....600 psi)

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**Main wetted parts**

316L, AlloyC,

Tantal, Monel,

Gold

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**Continuous / Liquids****Process connection**

NPT1/4-18,

RC1/4"

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**Max. measurement distance**400 m (1,312 ft) H<sub>2</sub>O

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**Communication**

4...20 mA HART

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**Certificates / Approvals**

ATEX, IEC Ex, CSA C/US

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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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**Drinking water approvals**

NSF, KTW

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**Options**

Touch control display

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**Application limits**

None

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**Pressure****Measuring principle**

Differential pressure

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## Pressure

### Characteristic

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

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

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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 0.05 %

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

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### Process temperature

-40°C...+110°C  
(-40°F...+230°F)

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### Ambient temperature

-40°C...+85°C  
(-40°F...+185°F)

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**Pressure****Measuring cell**

10 mbar...40 bar

(0.15 psi...600 psi)

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**Smallest calibratable span**0.25 mbar (0.00375 psi)

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**Vacuum resistance**50 mbar (0.73 psi)

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**Max. Turn down**100:1

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**Max. overpressure limit**1600 bar (23,200 psi)

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**Process connection**

NPT1/4-18

RC1/4"

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**Material process membrane**

316L, AlloyC,

Tantal,

Monel,

Gold

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**Material gasket**PTFE, FKM, EPDM, FFKM

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**Fill fluid**

Silicone oil,

Inert 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

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### Safety approvals

SIL

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### Design approvals

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