Indicating type differential pressure switch Model: P631 series

Spec. sheet no. PD06-05

ICE



The P631 series are designed to measure a differential pressure from 30 kPa to 1.5 MPa at static pressure up to 5 and 25 MPa and have electrical contact. These models are designed to control and alarm for a differential pressure, providing a right time to replace air and sludge filter during the process.

Nominal diameter

150 mm

Accuracy ±1.0% of full scale ±1.5% of full scale

Scale range (MPa, kPa, bar) 0 ~ 30 kPa to 0 ~ 50 kPa 0 ~ 0.1 MPa to 0 ~ 1.5 MPa

Static pressure 5 MPa : Model P63X1 25 MPa : Model P63X2

Working temperature Ambient : -20 ~ 65°C Fluid : Max. 100°C

Degree of protection EN60529/IEC529/IP65

Temperature effect

Accuracy at temperature above and below the reference temperature (20°C) will be effected by approximately $\pm 0.5\%$ per 10°C of full scale

Standard features

Pressure connection

Stainless steel (316SS)

Element Bellows

Stainless steel (316L SS)

Case Black finished aluminium

Bezel ring

ALDC12.1, Black painted Screwed type

Window

Safety glass

Dial

White aluminium with black graduations

Pointer

Black painted aluminium alloy



Process connection

1/4" NPT(F) 1/2" NPT(F) at 3-way manifold valve and 5-way manifold valve

Standard accessories

Mounting bracket for 2" pipe mounting with silver gray finished steel

Optional

- Remote seal
- 1/2" (N)PT female conduit connection
- ¾" (N)PT female conduit connection
- Mounting bracket with 316SS for 2" pipe mounting
- 3-way manifold valve (316SS, Monel)
- 5-way manifold valve (316SS, Monel)

Conduit connection M20 x 1.5

M20 x 1.

Contact

Contact rating : AC 250 V 3 A / 125 V 5 A DC 250 V 0.2 A / 125 V 0.4 A / 30 V 4 A Dielectric strength : AC 500 V / MIN Type : Micro contact



Main order

Ordering information

9. Dial color

10. Options

3

0

1

8

2 colors

None

Manifold valve

1/2" or 3/4" NPT(F) conduit connection

1. Base model

- P631 High alarm contact differential pressure switch
- P632 High and low alarm contact differential pressure switch
- P633 Low alarm contact differential pressure switch
- P634 High and hi/high alarm contact differential pressure switch
- P635 Low and lo/low alarm contact differential pressure switch

2. Static pressure

- 1 5 MPa
- 2 25 MPa

3. Type of mounting

D Bottom connection, mounting bracket for 2" pipe

4. Accuracy

- 3 ±1.0% of full scale
- 4 ±1.5% of full scale

5. Process connection

- **C** ¹/₄" NPT(F)
- E ¹/₂" NPT(F) (Only at 3-way and 5-way manifold valve)

6. Mounting bracket

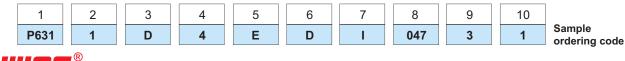
- D Standard bracket
- E 304SS mounting bracket
- F 316SS mounting bracket
- W Wall mounting bracket (316SS)
- N None

7. Unit

- H bar
- I MPa
- **J** kPa
- S mbar

8. Range

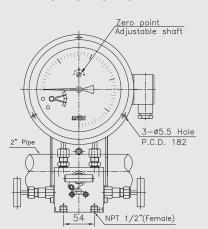
- 041 0 ~ 0.1 MPa
- 042 0~0.2 MPa
- 043 0~0.3 MPa
- **044** 0 ~ 0.4 MPa
- 045 0~0.6 MPa
- **047** 0 ~ 1 MPa
- **050** 0 ~ 1.5 MPa
- **518** 0 ~ 30 kPa, not available with remote seal type
- **040** 0 ~ 50 kPa



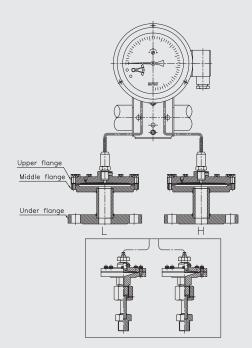


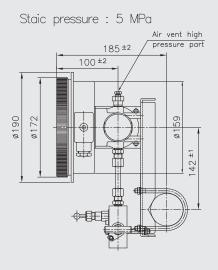
P63X : Type of mounting

Code P641, 642, 643, 644, 645

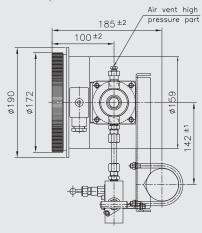


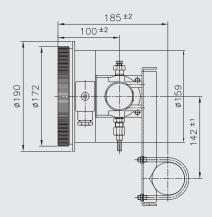
Code P641, 642, 643, 644, 645(Remote seal)

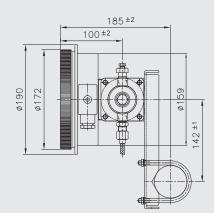




Staic pressure : 25 MPa

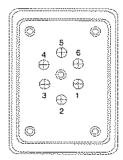








Terminal block arrangement



1. P631 (High alarm)

- ① Normal open
- ② Common
- 3 Normal close

2. P632 (High and low alarm)

High alarm

Low alarm

- ① Normal open
- ② Common③ Normal close
- ④ Normal open
 ⑤ Common
- 6 Normal close

3. P633 (Low alarm)

- 1 Normal open
- 2 Common
- ③ Normal close

4. P634 (High and h/High alarm)

High alarm

High and high alarm

- ④ Normal open
- Normal open
 Common
 Normal close
- 5 Common
- 0 Normal close

5. P635 (Low and I/Low alarm)

High alarm

- ① Normal open
- 2 Common
- 3 Normal close

Low and low alarm

- 4 Normal open
- 5 Common6 Normal close

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