

INDICATING DIFFERENTIAL PRESSURE SWITCH MODEL : P641, P642, P643, P644, P645 SERIES

WISE®

SERVICE INTENDED

P641 to P645 series are designed to measure differential pressure from 30kPa to 1Mpa at static pressure up to 5Mpa and have electrical contact.

P641 to P645 are intended to control alarm for differential pressure, providing right time to replace air and sludge filter in the process.

NOMINAL DIAMETER

150mm

ACCURACY

±1.5% of Full Scale

±1.0% of Full Scale

SCALE RANGE (MPa, kPa, bar, mbar)

0 ~ 30, 50kPa and

0 ~ 0.1 to 0 ~ 1.5MPa

STATIC PRESSURE

5MPa

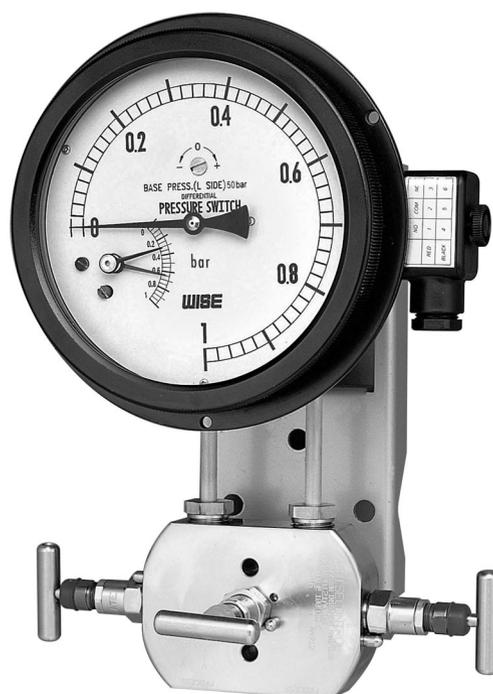
WORKING TEMPERATURE

Ambient : -20 ~ 65°C

Fluid : -20 ~ 80°C

DEGREE OF PROTECTION

IP56



Standard Features

PRESSURE CONNECTION

Stainless Steel (316SS)

ELEMENT

Bellows, Stainless Steel (316LSS)

CASE & BEZEL RING

Black Finished Aluminium.
Screwed Type

DIAL

White Aluminium with
Black Graduations

CONTACT

Contact Rating :

3A, 250V AC / 5A, 125V AC

0.2A, 250V DC / 0.4A, 125V DC

4A, 30V DC

Dielectric Strength : AC 500V/MIN

Type : Micro Contact

CONDUIT CONNECTION

M20X1.5P

WINDOW

Glass

POINTER

Aluminium alloy, Black painted

PROCESS CONNECTION

1/4", NPT(F)

1/2", NPT(F) at 3-valve Manifold
and 5-valve Manifold.

STANDARD ACCESSORIES

- Mounting Bracket for 2" Pipe Mounting
Silver gray Finished Steel

OPTIONS

- Remote Seal
- 1/2"(N)PT Female Conduit Connection
- 3/4"(N)PT Female Conduit Connection
- Mounting Bracket with 316SS
for 2" Pipe Mounting.
- 3-valve Manifold (316SS)
- 5-valve Manifold (316SS)

ORDERING INFORMATION

BASE MODEL

- P641 : HIGH ALARM CONTACT DIFF, PRESSURE GAUGE**
- P642 : HIGH AND LOW ALARM CONTACT DIFF, PRESSURE GAUGE**
- P643 : LOW ALARM CONTACT DIFF, PRESSURE GAUGE**
- P644 : HIGH AND H/HIGH ALARM CONTACT DIFF, PRESSURE GAUGE**
- P645 : LOW AND L/LOW ALARM CONTACT DIFF, PRESSURE GAUGE**

NOMINAL DIAMETER

6 : 150mm

MOUNTING TYPE (Refer to Mounting type & Dimension)

D : Bottom Connection, Mounting Bracket for 2" pipe

ACCURACY

3 : ±1.0% of Full Scale.

4 : ±1.5% of Full Scale.

PROCESS CONNECTION

C : 1/4" NPT(F)

E : 1/2" NPT(F) (Only at 3-way & 5-way valve manifold)

MOUNTING BRACKET TYPE

D : Standard Bracket

E : 304SS Mounting Bracket

F : 316SS Mounting Bracket

W : Wall Mounting Bracket (316SS)

UNIT

J : kPa

S : mbar

H : bar

I : MPa

RANGE

041 : 0~0.1MPa

042 : 0~0.2MPa

043 : 0~0.3MPa

044 : 0~0.4MPa

045 : 0~0.6MPa

047 : 0~1MPa

050 : 0~1.5MPa

119 : 0~30kPa, Not available with Remote Seal type

123 : 0~50kPa

DIAL COLOR

3 : 2 Colors

OPTIONS

0 : Standard (Mounting Bracket for 2" Pipe)

1 : Accessories (3-way & 5-way valve manifold)

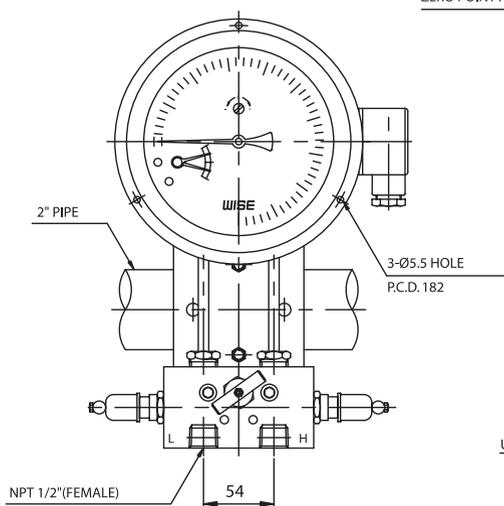
4 : 1/2" or 3/4" NPT(F) Conduit Connection



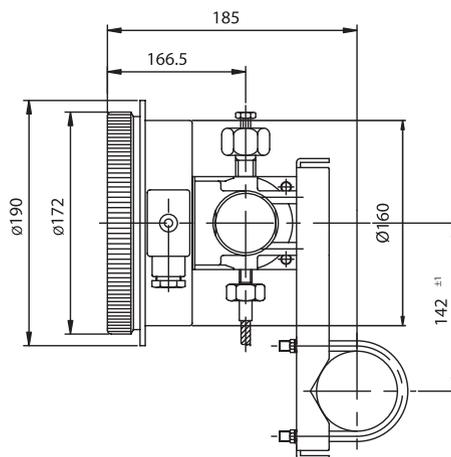
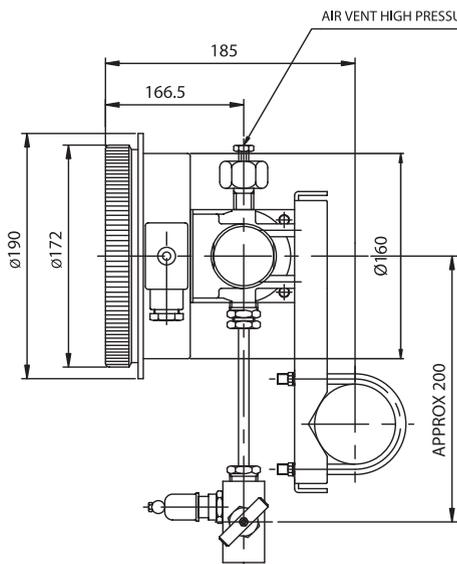
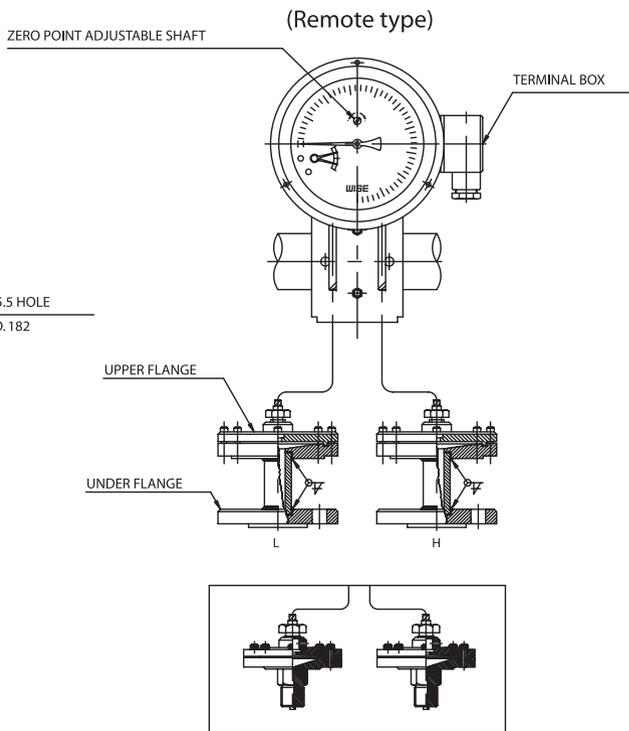
SAMPLE MODEL NUMBER

P640 : TYPE OF MOUNTING

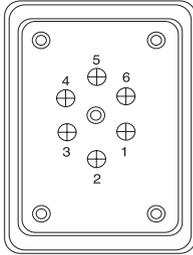
CODE P641, 642, 643, 644, 645



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TERMINAL BLOCK ARRANGEMENT



1. P641 (High Alarm)

- ① Normal Open (RED)
- ② Common (YELLOW)
- ③ Normal Close (BLUE)

2. P642 (High and Low Alarm)

- High Alarm [
- ① Normal Open (RED)
 - ② Common (YELLOW)
 - ③ Normal Close (BLUE)

- Low Alarm [
- ④ Normal Open (RED)
 - ⑤ Common (YELLOW)
 - ⑥ Normal Close (BLUE)

3. P643 (Low Alarm)

- ① Normal Open (RED)
- ② Common (YELLOW)
- ③ Normal Close (BLUE)

4. P644 (High and High Alarm)

- High Alarm [
- ① Normal Open (RED)
 - ② Common (YELLOW)
 - ③ Normal Close (BLUE)

- High & High Alarm [
- ④ Normal Open (RED)
 - ⑤ Common (YELLOW)
 - ⑥ Normal Close (BLUE)

5. P645 (Low and Low Alarm)

- Low Alarm [
- ① Normal Open (RED)
 - ② Common (YELLOW)
 - ③ Normal Close (BLUE)

- Low & Low Alarm [
- ④ Normal Open (RED)
 - ⑤ Common (YELLOW)
 - ⑥ Normal Close (BLUE)