INDICATING DIFFERENTIAL PRESSURE SWITCH
MODEL : P651, P652, P653, P654, P655 SERIES

WISE ®

SERVICE INTENDED

P651 to P655 series are designed to measure
differential pressure from 30kPa to 1Mpa
at static pressure up to 25Mpa and have electrical
contact. P651 to P655 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

25MPa

WORKING TEMPERATURE

Ambient : -20 ~ 65˚C
Fluid : -20 ~ 80˚C

DEGREE OF PROTECTION

IP56
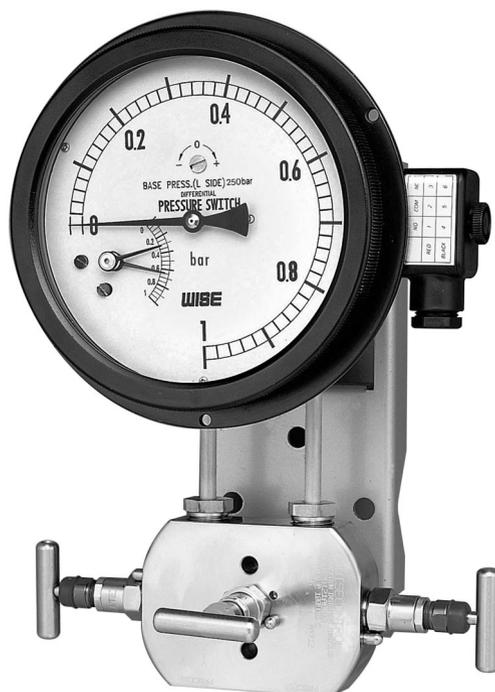
Standard Features

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

P651 : HIGH ALARM CONTACT DIFF, PRESSURE GAUGE
P652 : HIGH AND LOW ALARM CONTACT DIFF, PRESSURE GAUGE
P653 : LOW ALARM CONTACT DIFF, PRESSURE GAUGE
P654 : HIGH AND H/HIGH ALARM CONTACT DIFF, PRESSURE GAUGE
P655 : 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

P651	6	D	4	E	D	N	047	3	1	**SAMPLE MODEL NUMBER**
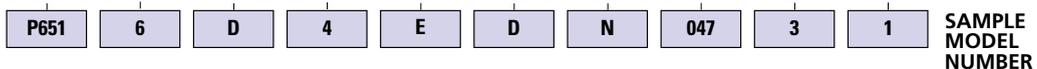
P650 : TYPE OF MOUNTING

CODE P651, 652, 653, 654, 655

CODE P651, 652, 653, 654, 655

(Remote type)

ZERO POINT ADJUSTABLE SHAFT

TERMINAL BOX

2" PIPE

3- 5.5 HOLE
P.C.D. 182

UPPER FLANGE

UNDER FLANGE

NPT 1/2"(FEMALE)

54

L

H

L   H

AIR VENT HIGH PRESSURE PART

185

166.5

ø 190

ø 172

ø 159

APPROX 200

185

166.5

ø 190

ø 172

142¹
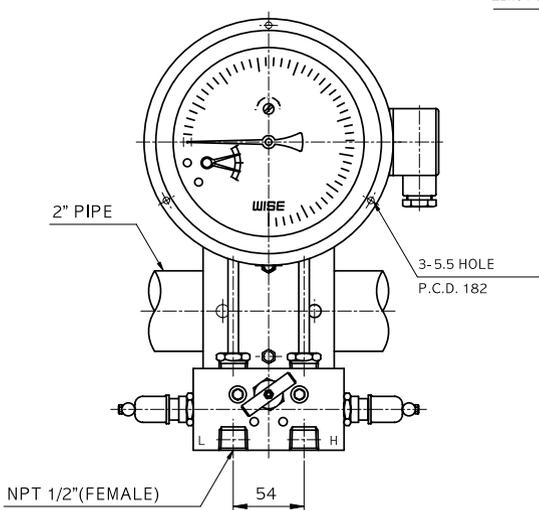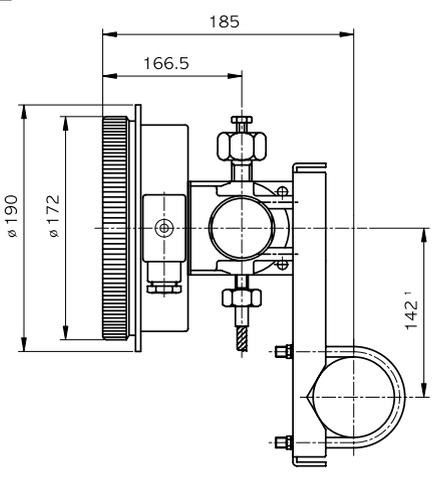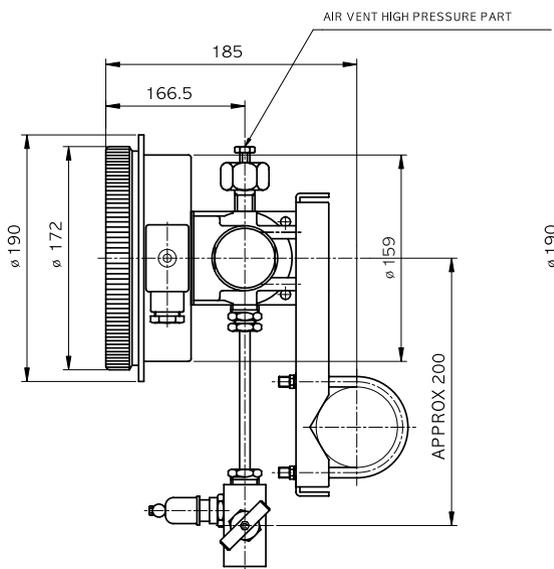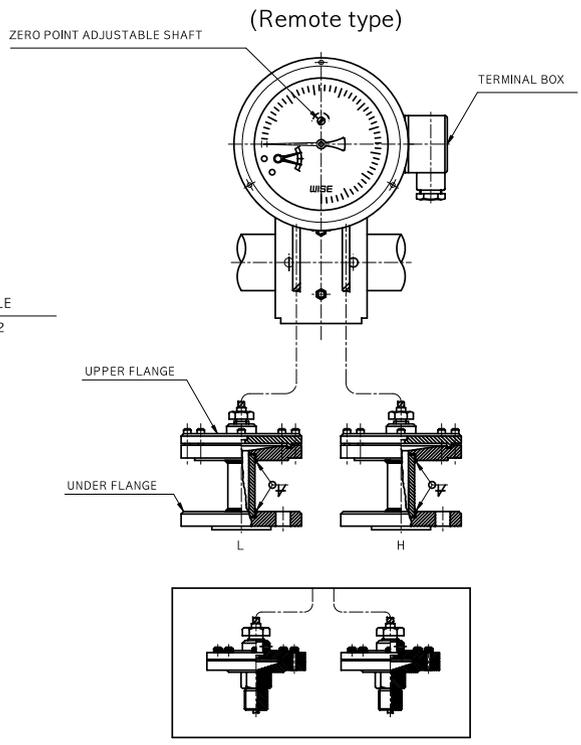
TERMINAL BLOCK ARRANGEMENT
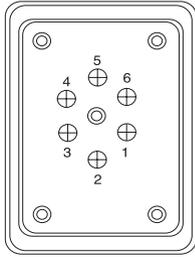
1. P651 (High Alarm)

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

2. P652 (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. P653 (Low Alarm)

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

4. P654 (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. P655 (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)