



CATALOGO GENERAL



**SIN JIA ENTERPRISE
CO., LTD.**

Vol. 1



MEDIDORES DE PRESION

DIGITALES

Touchscreen Digital Pressure Gauge

Model: LTS

Product Description

- Touch screen buttons are more durable and easier to operate than traditional buttons
- Circular arc percentage chart can simulate pressure values, helping prevent overpressure



Product Specification

Connection location

Bottom mount

Accuracy

±0.4% F.S. (standard), ±0.2% F.S.

Nominal size

4"

Process connection

304 SS

PT: 1/4", 1/2"

G: 1/8", 1/4", 3/8", 1/2", 7/8"

NPT: 1/4", 1/2"

M: 12*1.5, 10*1.0, 10*1.5, 14*1.5, 20*1.5

Scale ranges

0 ... 5 kPa to 0 ... 100 MPa, or other equivalent units of pressure, vacuum or compound

Case/Ring

304 SS

Pressure units

MPa, kg/cm², bar, psi, mmH₂O, kPa, Pa, inWC, mbar, mH₂O, inHg, mmHg, Torr (Up to 8 units can be switched, if not specified, the engineer will select it according to the pressure range)

Sensor element

316 SS

Product Specification

Medium temperature

-35°C ... 60°C

Display

5.5 digits

LCD, switchable backlight button

Response time

18 times/sec

Voltage supply

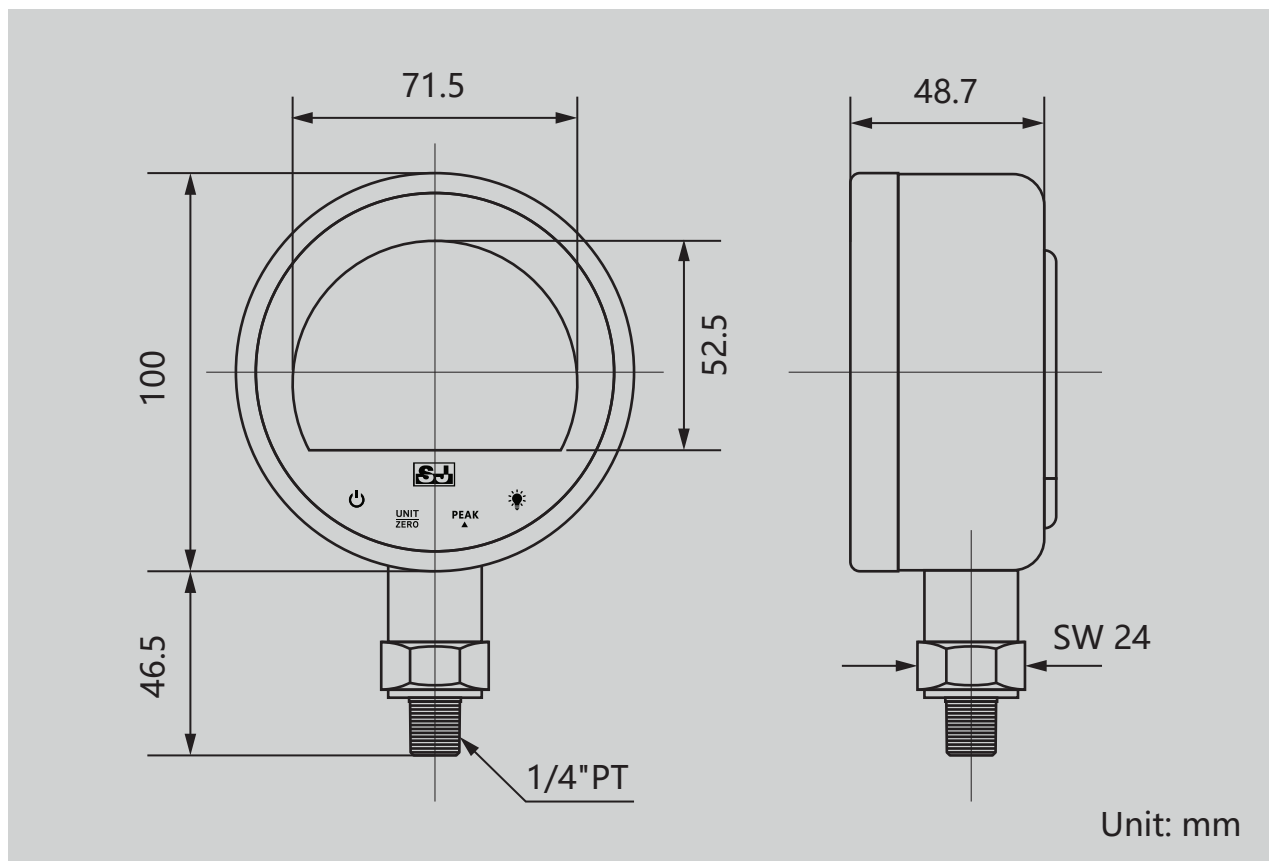
AA battery*3

Optional external power supply:
DC24V, DC5V, or with other transformers such as AC110V.

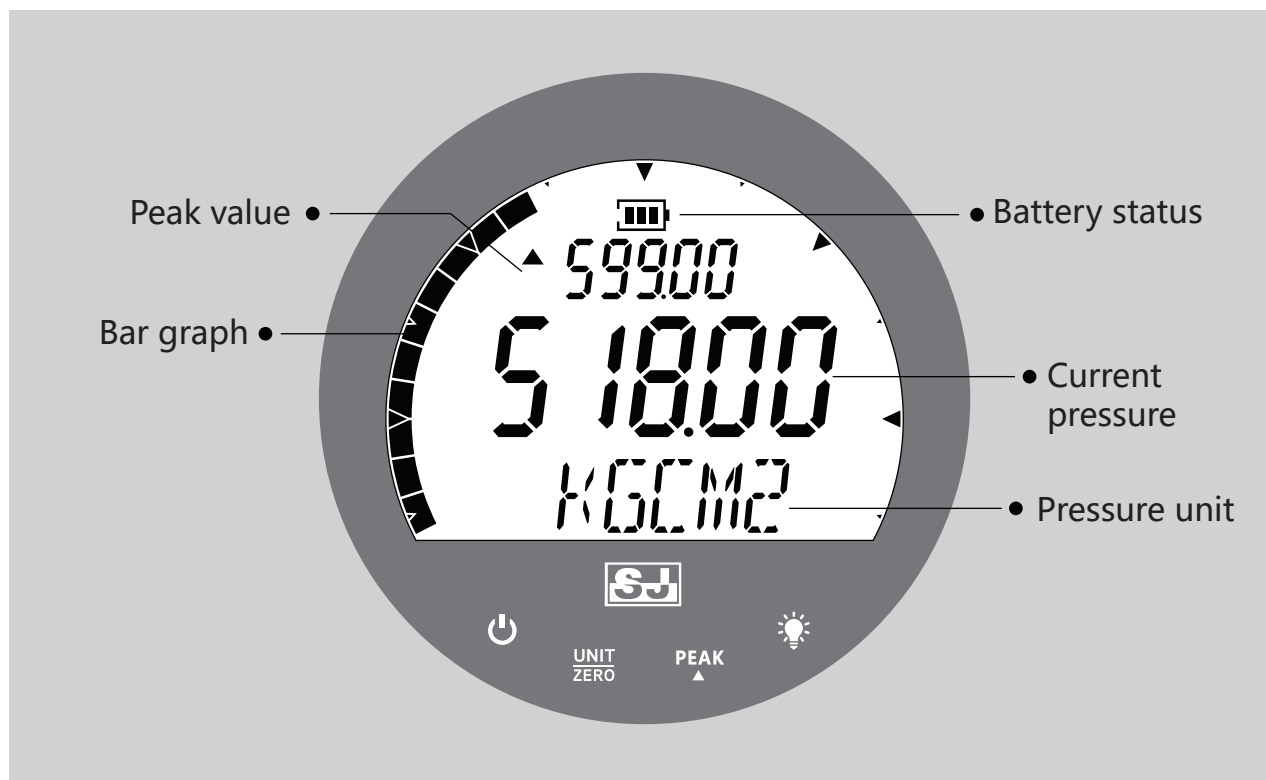
Protection level

IP 40

Dimensions

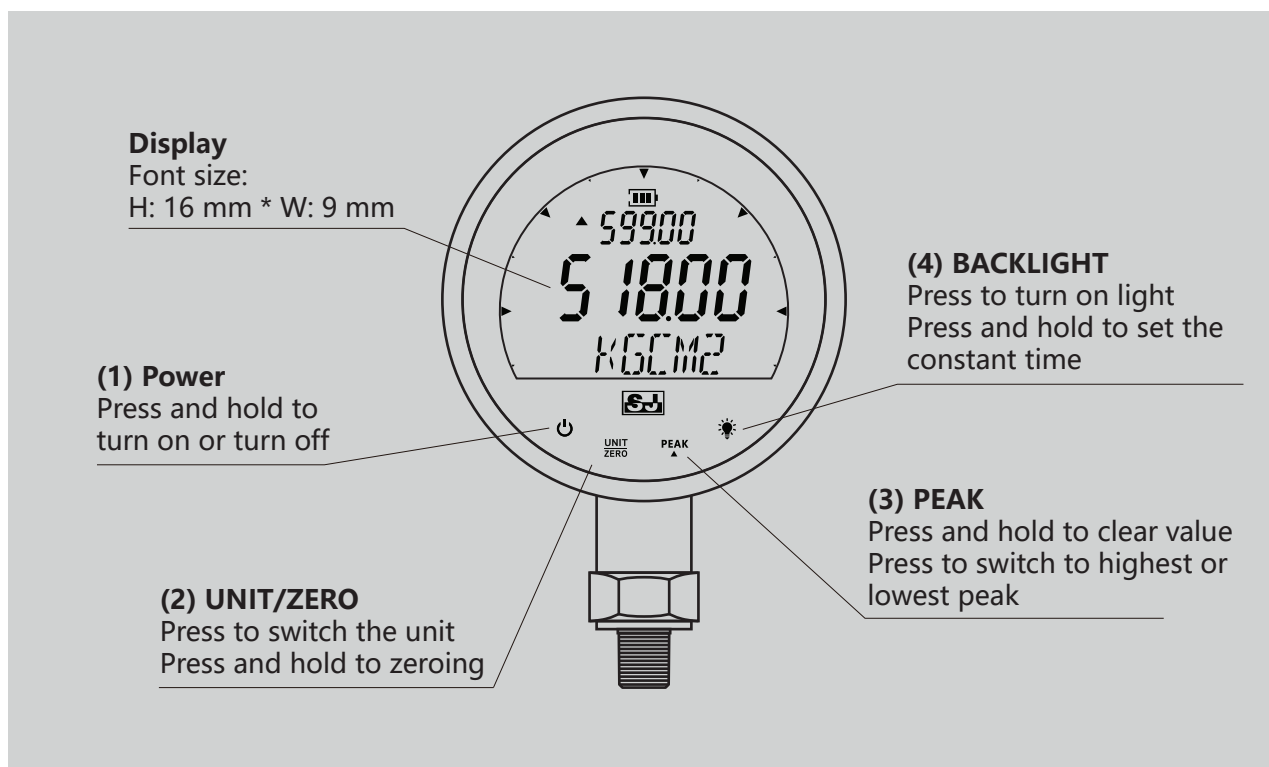


Interface Description





Key functions



How to set constant backlight?

1. Turn on.
 2. Press and hold (4) BACKLIGHT to enter the menu.
 3. Press (4) BACKLIGHT to change the ones digit to 0.
 4. Press (2) ZERO/UNIT to switch to the tens digit, and press (4) BACKLIGHT to set the value to 0.
- ※ Do not set numbers other than 00, otherwise it will affect the factory settings and cause program confusion.
5. And press (3) PEAK again to complete the constant backlight setting.

How to reset?

1. Turn on.
2. Press and hold (4) BACKLIGHT to enter the menu.
3. Press (4) BACKLIGHT to change the ones digit to 9.
4. Press (2) ZERO/UNIT to switch to the tens digit, and press (4) BACKLIGHT to set the value to 9.
5. And press (3) PEAK to complete resetting.



How to adjust the update frequency?

[Enter the menu]

1. Turn on.
2. Long press (4) BACKLIGHT to enter the first level menu.
3. Press (4) BACKLIGHT to toggle the ones digit to 6.
4. Press (2) ZERO/UNIT to switch to the tens digit, then press (4) BACKLIGHT to set the value to 9.
5. Press (3) PEAK to confirm to enter the second level menu.

[Setting]

6. Press (2) ZERO/UNIT or (4) BACKLIGHT to switch the screen to "SEF9", then press (3) PEAK to enter the frequency setting.
7. The default value is "01", press (4) BACKLIGHT to adjust the value. (The larger the number, the lower the update frequency and the more stable the display.)

[Exit the menu]

8. Press (3) PEAK to return to the second level menu.
9. Press (2) ZERO/UNIT or (4) BACKLIGHT to switch the screen to "SOUt", then press (3) PEAK to complete the frequency setting.

How to set automatic shutdown time?

[Enter the menu]

1. Turn on.
2. Long press (4) BACKLIGHT to enter the first level menu.
3. Press (4) BACKLIGHT to toggle the ones digit to 6.
4. Press (2) ZERO/UNIT to switch to the tens digit, then press (4) BACKLIGHT to set the value to 9.
5. Press (3) PEAK to confirm to enter the second level menu.

[Setting]

6. Press (2) ZERO/UNIT or (4) BACKLIGHT to switch the screen to "CLtt", then press (3) PEAK to enter the shutdown setting.
7. The default value is "00", press (4) BACKLIGHT to adjust the value. (Number 01 is 1 minute, number 02 is 2 minutes, etc.)

[Exit the menu]

8. Press (3) PEAK to return to the second level menu.
9. Press (2) ZERO/UNIT or (4) BACKLIGHT to switch the screen to "SOUt", then press (3) PEAK to complete the shutdown setting.

Digital Pressure Gauge: LCD Display

Model: MXB

Product Description

- Bar graph display can prevent over-pressure
- Helps record highest and lowest peak values effectively
- Same material as PCE Deutschland GmbH



Product Specification

Connection location

Bottom mount, back mount,
with/without flange, bottom mount
with cooling element

Nominal size

2.5", 3", 4"

Scale ranges

0 ... 5 kPa to 0 ... 100 MPa, or other
equivalent units of pressure, vacuum
or compound

Pressure units

MPa, kg/cm², bar, psi, mmH₂O, kPa,
Pa, inWC, mbar, mH₂O, inHg, mmHg,
Torr (Up to 8 units can be switched,
if not specified, the engineer will
select it according to the pressure
range)

Accuracy

±0.4% F.S. (standard), ±0.2% F.S.

Process connection

304 SS

PT: 1/4", 1/2"

G: 1/8", 1/4", 3/8", 1/2", 7/8"

NPT: 1/4", 1/2"

M: 12*1.5, 10*1.0, 10*1.5, 14*1.5,
20*1.5

Product Specification

Case/Ring

304 SS

Panel

Acrylic

Diaphragm

316 SS

Medium temperature

-35°C ... 60°C

Display

5.5 digits

LCD, switchable backlight button

Response time

18 times/sec

Power supply

2.5" bottom mount, 3": AAA battery*3

2.5" back mount, back mount with flange: AAA battery*4

4": AA battery*3

Optional external power supply: DC24V, DC5V, or with other transformers such as AC110V. You need to open the top cover to replace the battery of 2.5" back mount type.

Protection level

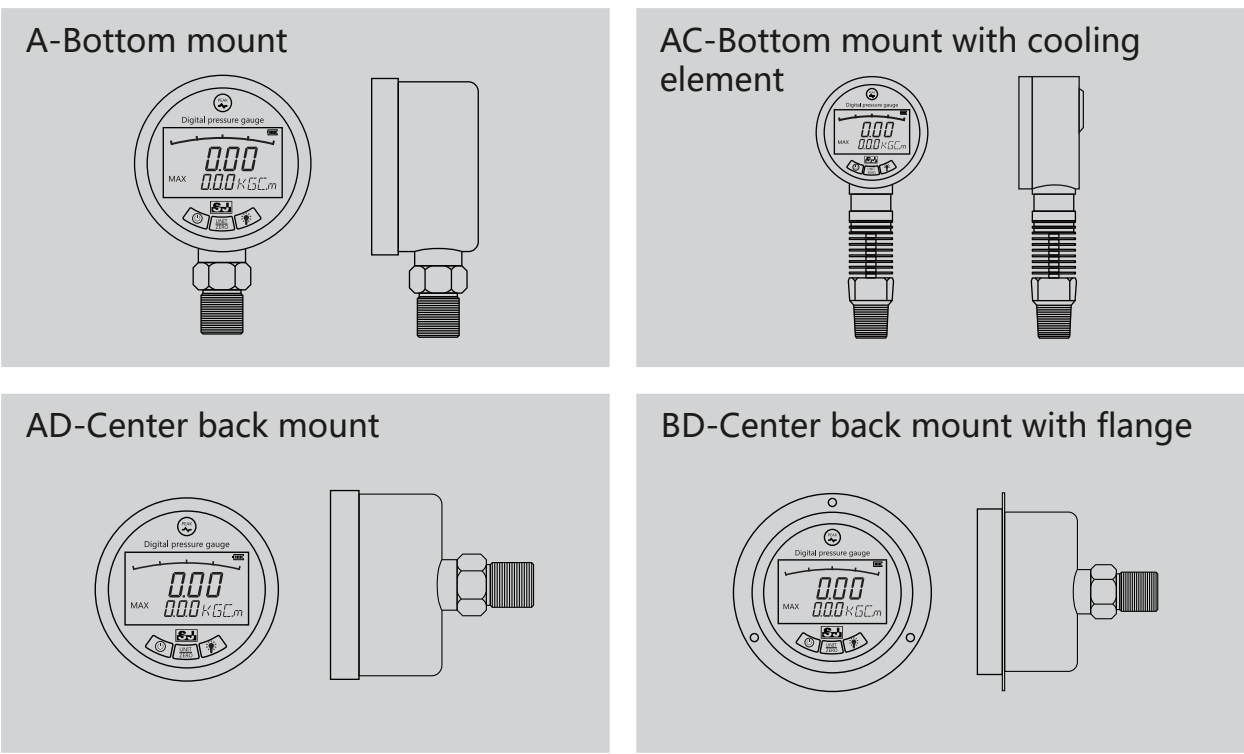
IP40

Battery life

3500 hours

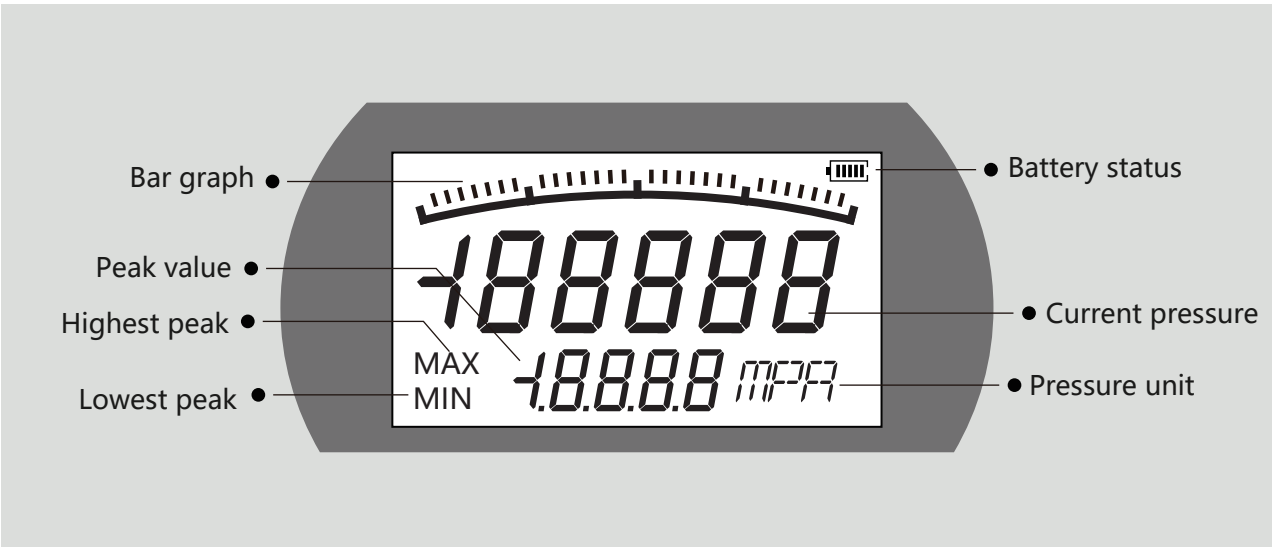
Can be used for half a year to 1 year without the backlight, and can be used for about 8 months when it is turned on continuously.

Connection location



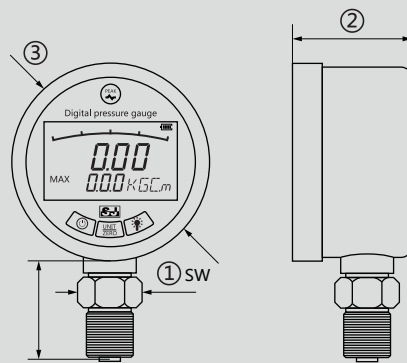
Connection location				
NS	A	AC	AD	BD
2.5"	V	-	V	V
3"	V	V	V	V
4"	V	-	V	V

Interface Description



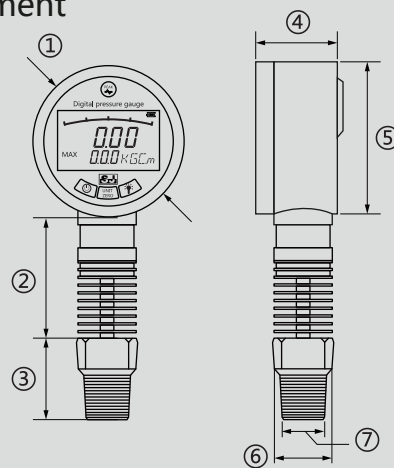
Dimensions

A-Bottom mount



Dimensions (mm)			
NS	①	②	③
2.5"	24	40	67
3"	24	51	81
4"	24	48	100

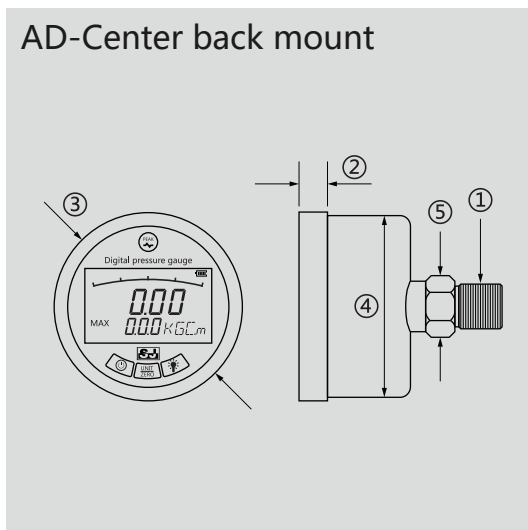
AC-Bottom mount with cooling element



Dimensions (mm)							
NS	①	②	③	④	⑤	⑥	⑦
3"	80.6	63.8	31	48.3	79.8	29	M20*1.5

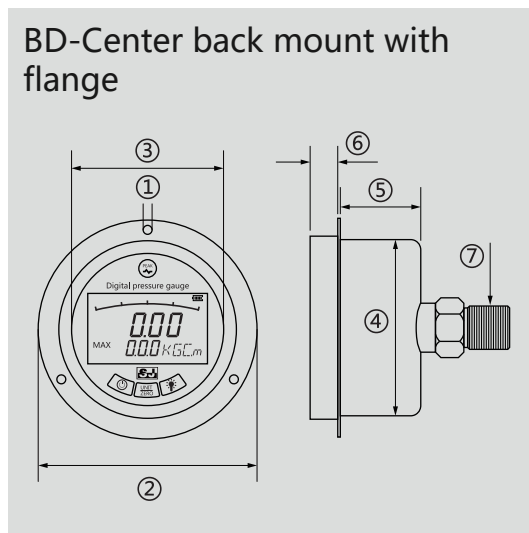
Dimensions

AD-Center back mount



Dimensions (mm)					
NS	①	②	③	④	⑤
2.5"	1/4"	10.5	69	62	27
3"	1/4"	12.5	71.5	76	27
4"	1/4"	16	97	103	27

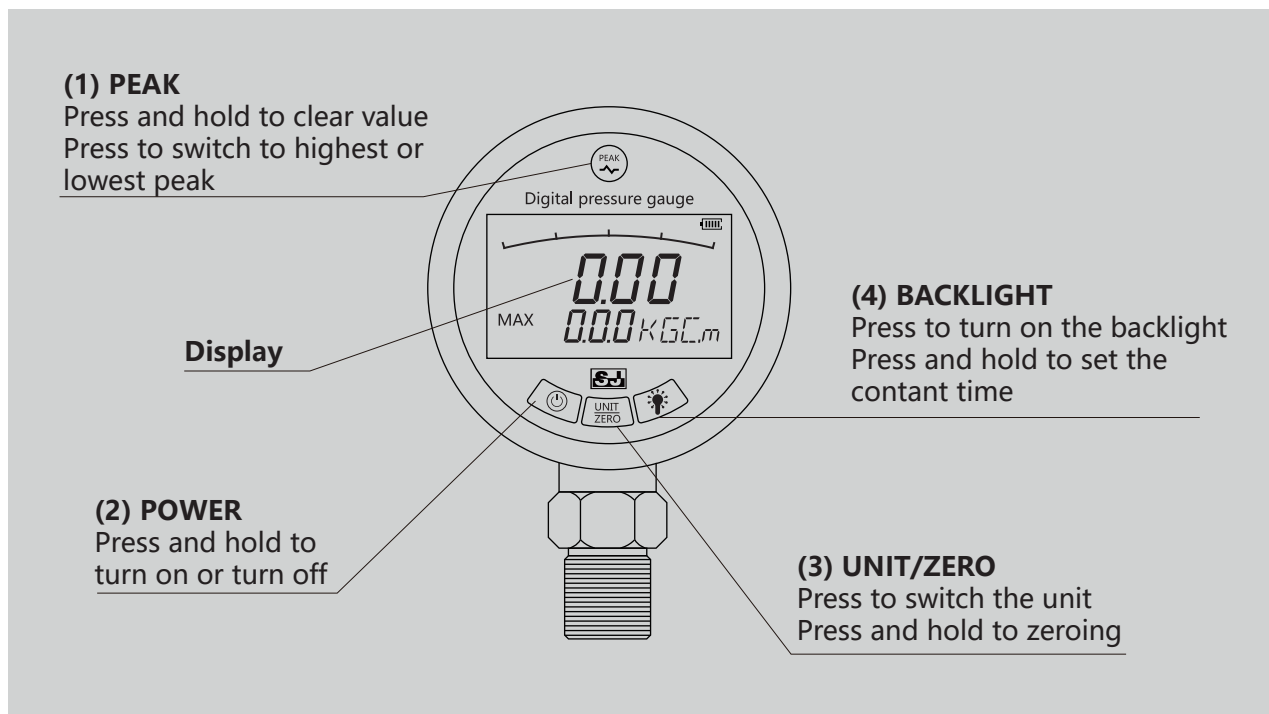
BD-Center back mount with flange



Dimensions (mm)							
NS	①	②	③	④	⑤	⑥	⑦
2.5"	6.5*5.5	89	69	62	29.5	10.5	1/4"
3"	4.5*3	107	71.5	76	38	12.5	1/4"
4"	5.5*3	135	97	103	33	16	1/4"



Key functions



How to get back when accidentally access the menu?

Press (1) PEAK to return to measurement mode.

How to set constant backlight?

1. Turn on.
 2. Press and hold (4) BACKLIGHT to enter the menu.
 3. Press (4) BACKLIGHT to change the ones digit to 0.
 4. Press (3) ZERO/UNIT to switch to the tens digit, and press (4) BACKLIGHT to set the value to 0.
- ※ Do not set numbers other than 00, otherwise it will affect the factory settings and cause program confusion.
5. And press (1) PEAK again to complete the constant backlight setting.

How to reset?

1. Turn on.
2. Press and hold (4) BACKLIGHT to enter the menu.
3. Press (4) BACKLIGHT to change the ones digit to 9.
4. Press (3) ZERO/UNIT to switch to the tens digit, and press (4) BACKLIGHT to set the value to 9.
5. And press (1) PEAK to complete resetting.



How to adjust the update frequency?

[Enter the menu]

1. Turn on.
2. Long press (4) BACKLIGHT to enter the first level menu.
3. Press (4) BACKLIGHT to toggle the ones digit to 6.
4. Press (3) ZERO/UNIT to switch to the tens digit, then press (4) BACKLIGHT to set the value to 9.
5. Press (1) PEAK to confirm to enter the second level menu.

[Setting]

6. Press (3) ZERO/UNIT or (4) BACKLIGHT to switch the screen to "SEF9", then press (1) PEAK to enter the frequency setting.
7. The default value is "01", press (4) BACKLIGHT to adjust the value. (The larger the number, the lower the update frequency and the more stable the display.)

[Exit the menu]

8. Press (1) PEAK to return to the second level menu.
9. Press (3) ZERO/UNIT or (4) BACKLIGHT to switch the screen to "SOUt", then press (1) PEAK to complete the frequency setting.

How to set the automatic shutdown time?

[Enter the menu]

1. Turn on.
2. Long press (4) BACKLIGHT to enter the first level menu.
3. Press (4) BACKLIGHT to toggle the ones digit to 6.
4. Press (3) ZERO/UNIT to switch to the tens digit, then press (4) BACKLIGHT to set the value to 9.
5. Press (1) PEAK to confirm to enter the second level menu.

[Setting]

6. Press (3) ZERO/UNIT or (4) BACKLIGHT to switch the screen to "CLtt", then press (1) PEAK to enter the shutdown setting.
7. The default value is "00", press (4) BACKLIGHT to adjust the value. (Number 01 is 1 minute, number 02 is 2 minutes, etc.)

[Exit the menu]

8. Press (1) PEAK to return to the second level menu.
9. Press (3) ZERO/UNIT or (4) BACKLIGHT to switch the screen to "SOUt", then press (1) PEAK to complete the shutdown setting.

Digital Pressure Switch

Model: MXE4

Product Description

- Precisely set value to efficiently avoid incorrect signals from pointer vibration
- Easily set the pressure switch values on site
- Various operating voltage settings and switch contacts to support different applications



Product Specification

Nominal size

3", 4"

Scale ranges

0 ... 10 kPa to 0 ... 1000 MPa, or
other equivalent units of pressure,
vacuum or compound

Pressure units

3": MPa, kg/cm², kPa
4": MPa, kg/cm², kPa, psi

Accuracy

±1.0% F.S. (standard), ±0.5% F.S.

Process connection

304 SS
1/4" PT, G 1/4", G1/2", 1/4" NPT,
1/2" NPT, M14*1.5, M20*1.5

Case/Ring

304 SS

Ambient temperature

-10°C ... 60°C

Medium temperature

-35°C ... 60°C

Voltage supply

DC12V, DC24V, DC36V, AC110V,
AC220V, AC380V

Production Specification

Rated point capacity
DC32V/5A, AC250V/10A

Relay
Omron

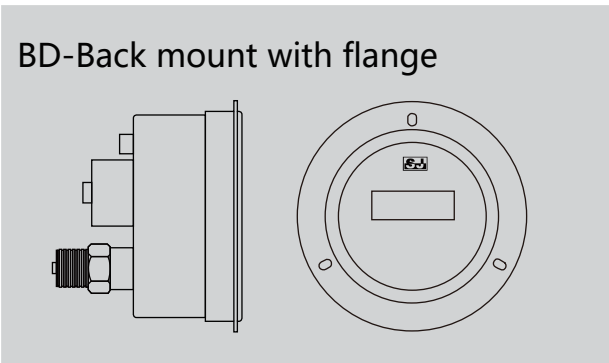
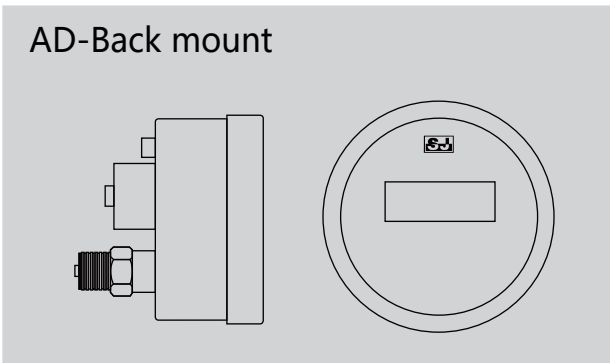
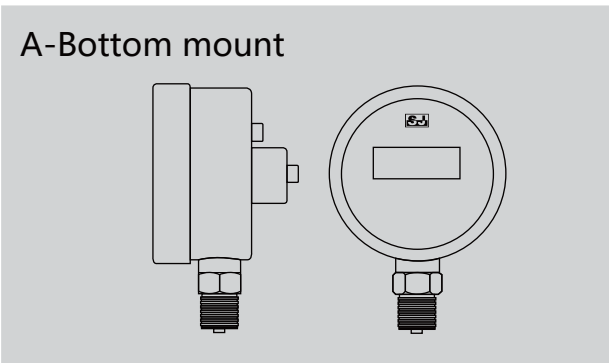
Starting current
0.5 A

Protection level
IP 40

Fuse
F3AL250V, 5*20, 3A

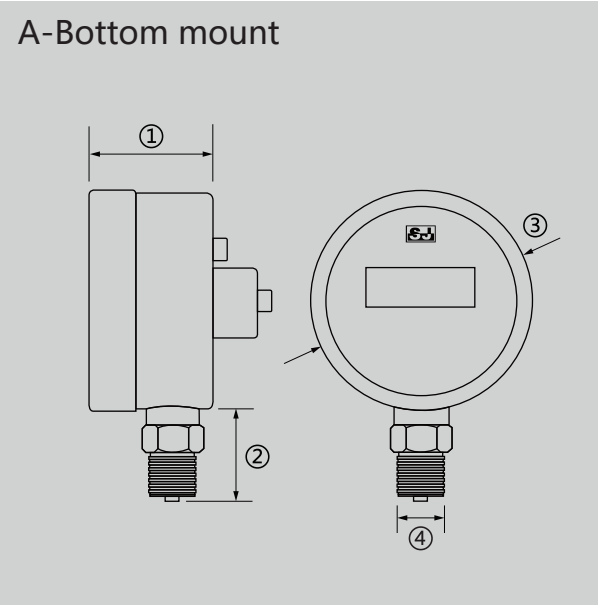
Relay \ Volt	DC24V	AC220V	AC380V
Single	35 mA	7.5 mA	5 mA
Double	50 mA	10 mA	7.5 mA

Connection Location

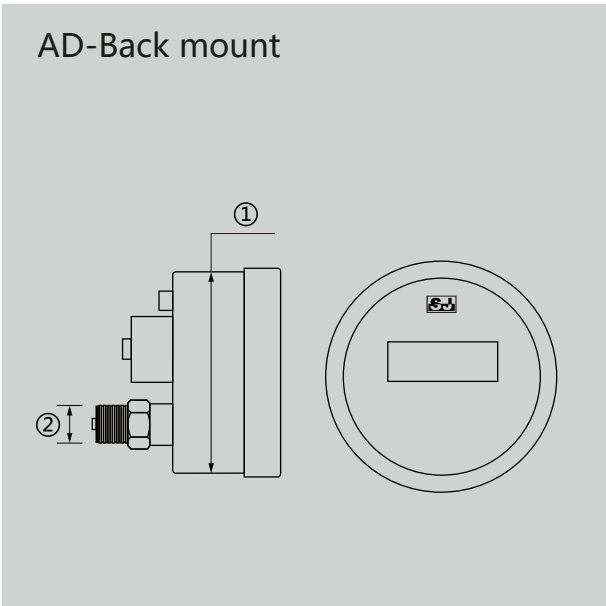


Connection location			
NS	A	AD	BD
3"	V	V	V
4"	V	V	V

Dimensions



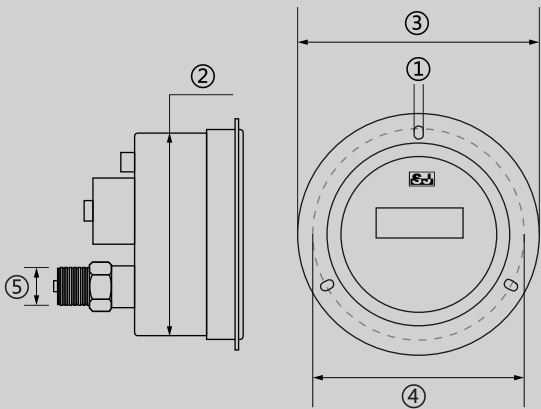
Dimension (mm)				
NS	①	②	③	④
3"	48	36.8	80.8	M14*1.5
4"	58	41	100	M20*1.5



Dimension (mm)		
NS	①	②
3"	76	M14*1.5
4"	100	M20*1.5

Dimensions

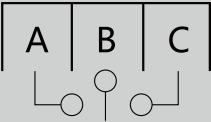
BD-Back mount with flange



Dimension (mm)					
NS	①	②	③	④	⑤
3"	4.5	79	107	96.5	M14*1.5
4"	5	100	132.5	117	M20*1.5

Wiring Diagram

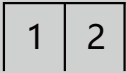
Control terminal



A. Upper limit contact
B. Common
C. Lower limit contact

Note: the input voltage

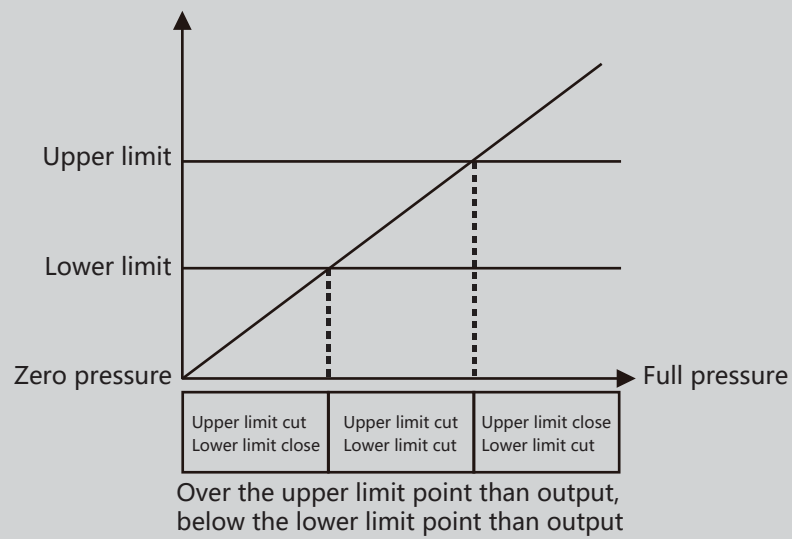
Power



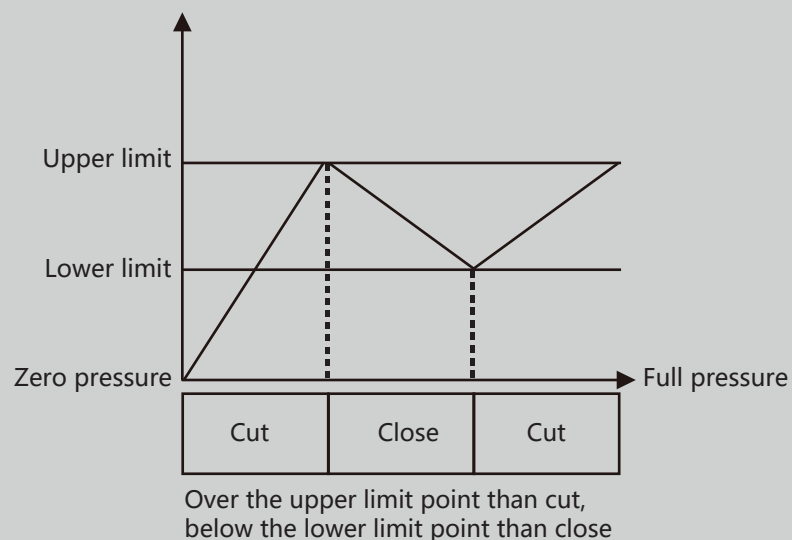
While control the output switch signal, it need to use with AC contactor

Control Function

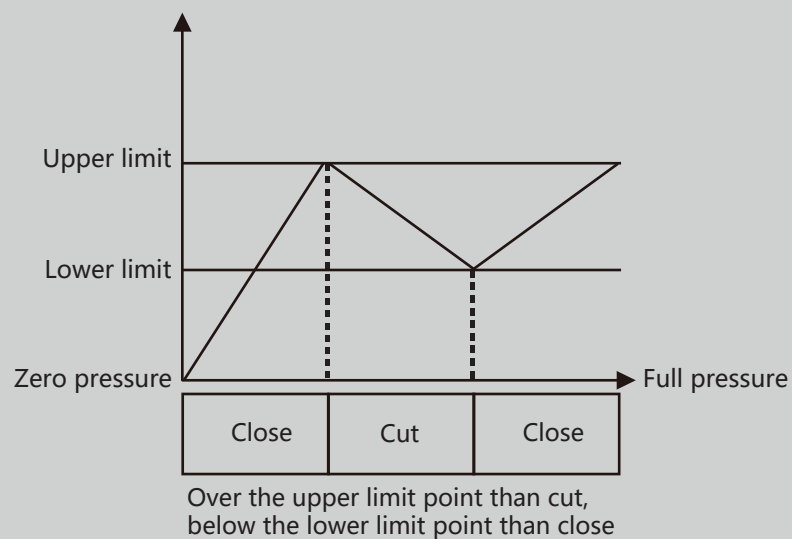
05 Electric contact (standard)



03 Anti-control



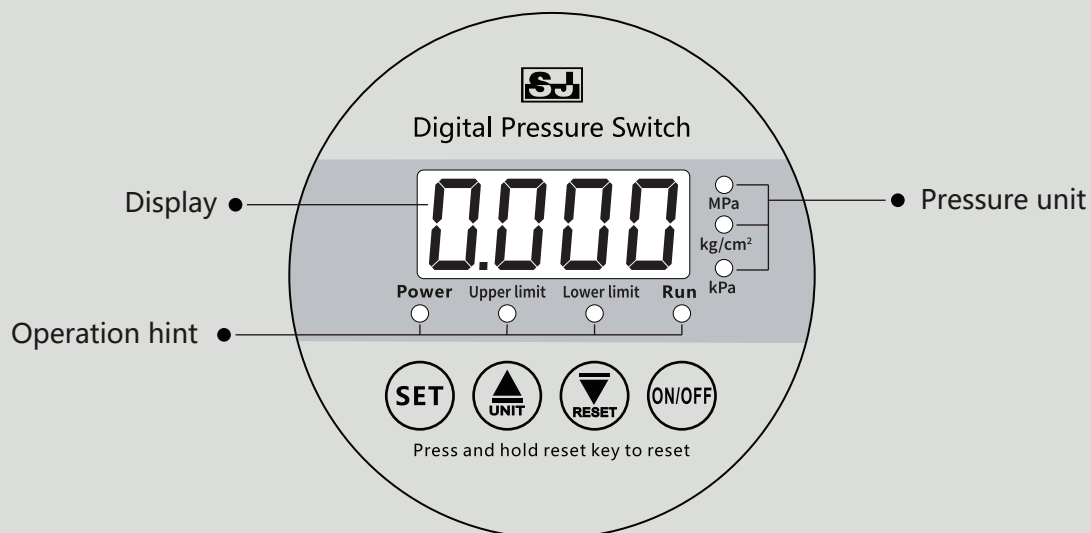
01 Positive control



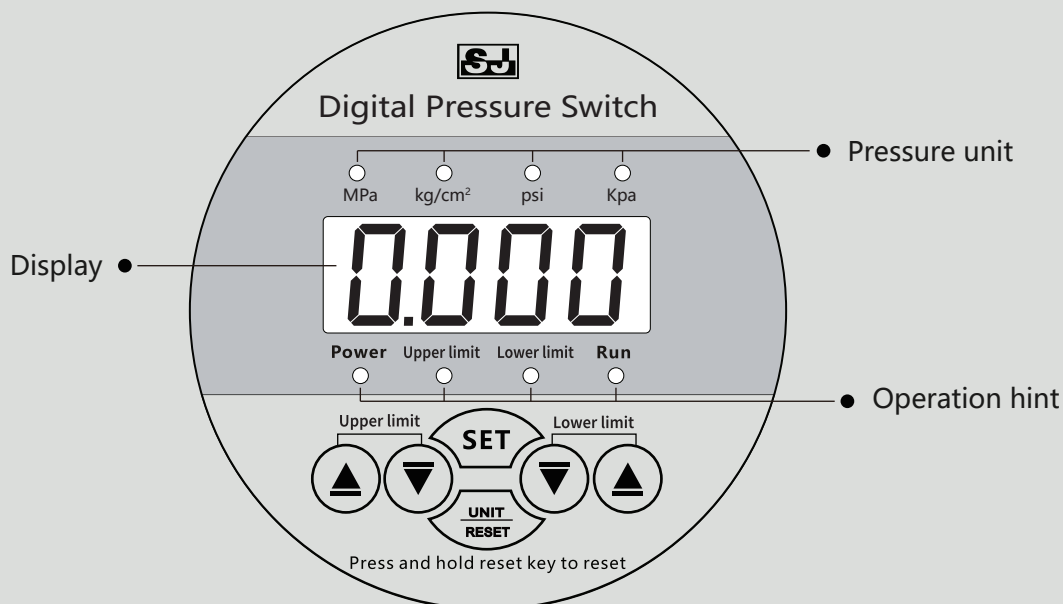


Panel display

3" Digital pressure switch



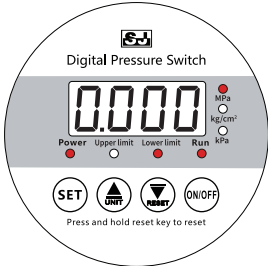
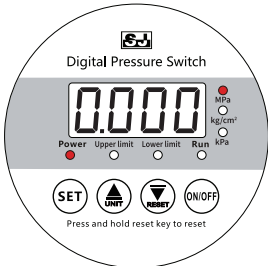
4" Digital pressure switch

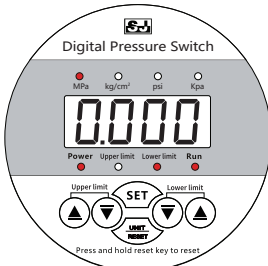
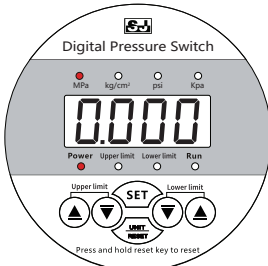




How to zeroing?

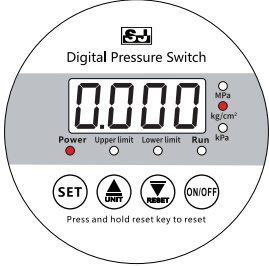
Due to the different atmospheric pressures in different places, the zero calibration should be performed first regardless of whether the screen has displayed values or not.

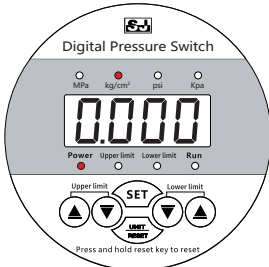
3" Digital pressure switch		
Operation	Operate	Indicator light
Step. 1 Power on	Please make sure that the pressure gauge is powered on at atmospheric pressure. At this time, the indicator light is on, and the "RUN" light is flashing.	
Step. 2 Zeroing	1. Press "ON/OFF" to enter the setting menu. 2. Press and hold "RESET" (down arrow) to zero.	

4" Digital pressure switch		
Operation	Operate	Indicator light
Step. 1 Power on	Please make sure that the pressure gauge is powered on at atmospheric pressure. At this time, the indicator light is on, and the "RUN" light is flashing.	
Step. 2 Zeroing	Press and hold "UNIT/RESET" to zero.	



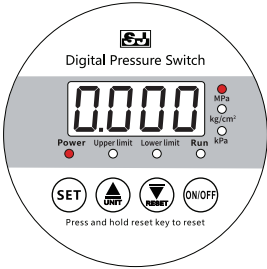
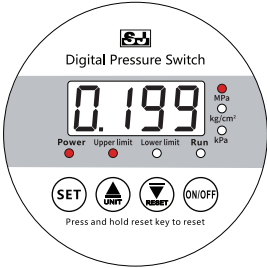
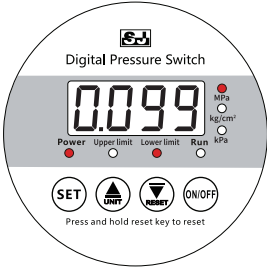
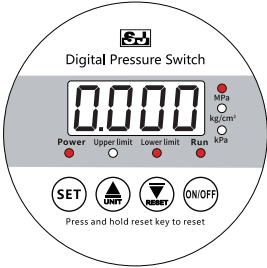
How to switch the pressure unit?

3" Digital pressure switch		
Operation	Operate	Indicator light
Switch the unit	1. Press "ON/OFF" to enter the setting menu. 2. Press and hold UNIT" (up arrow) to switch the unit.	

4" Digital pressure switch		
Operation	Operate	Indicator light
Switch the unit	Press "UNIT/RESET" to switch the unit.	

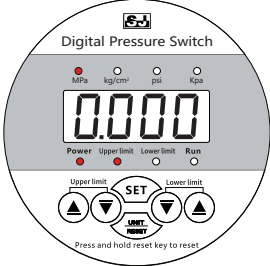
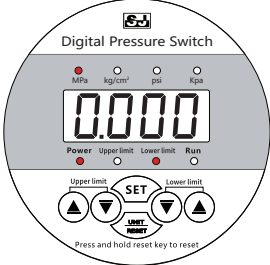


How to set the upper and lower limit?

3" Digital pressure switch		
Operation	Operate	Indicator light
Step. 1 Enter the menu	Press "ON/OFF" to enter the setting menu.	
Step. 2 Set the upper limit	1. Press "SET" key to enter the upper limit setting menu. 2. Press "UNIT" (up arrow) or "RESET" (down arrow) to increase or decrease values.	
Step. 3 Set the lower limit	1. Continue to the previous step, press "SET" to enter the lower limit setting menu. 2. Press "UNIT" (up arrow) or "RESET" (down arrow) to increase or decrease values.	
Step. 4 Complete the setting	1. Press "SET" to exit the limit setting. 2. Press "ON/OFF" to complete the upper and lower setting.	



How to set the upper and lower limit?

4" Digital pressure switch		
Operation	Operate	Indicator light
Set the upper limit	Short press the "up arrow" or "down arrow" under "Upper limit" to increase or decrease the value to complete the upper limit setting.	
Set the lower limit	Short press the "up arrow" or "down arrow" under "Lower limit" to increase or decrease the value to complete the lower limit setting.	

High Precision Digital Pressure Gauge

Model: MXP

Product Description

- Accuracy up to 0.025% F.S., ideal for instrument calibration
- Regulated by the equipment from international, industry-leading calibration companies: Mensor and GE
- Built-in lithium battery, which allows charging during use (micro-B)



Product Specifications

Nominal size

4"

Scale ranges

0 ... 40 kPa to 0 ... 100 MPa, or other equivalent units of pressure, vacuum or compound

Pressure units

kg/cm², mH₂O, kPa, mmHg, psi, bar, pa, MPa

Accuracy

±0.1% F.S., ±0.05% F.S., ±0.025% F.S.

Process connection

304 SS

1/2" NPT, G1/8", G1/4", G3/8",
G1/2", M20*1.5 or with adapter

Case/Ring

Aluminum alloy nickel plating

Panel

PVC

Diaphragm

316L SS

Medium temperature

-35°C ... 60°C

Product Specifications

Display

5 digits

LCD, switchable backlight button

Response time

20 ... 25 times/sec

Power supply

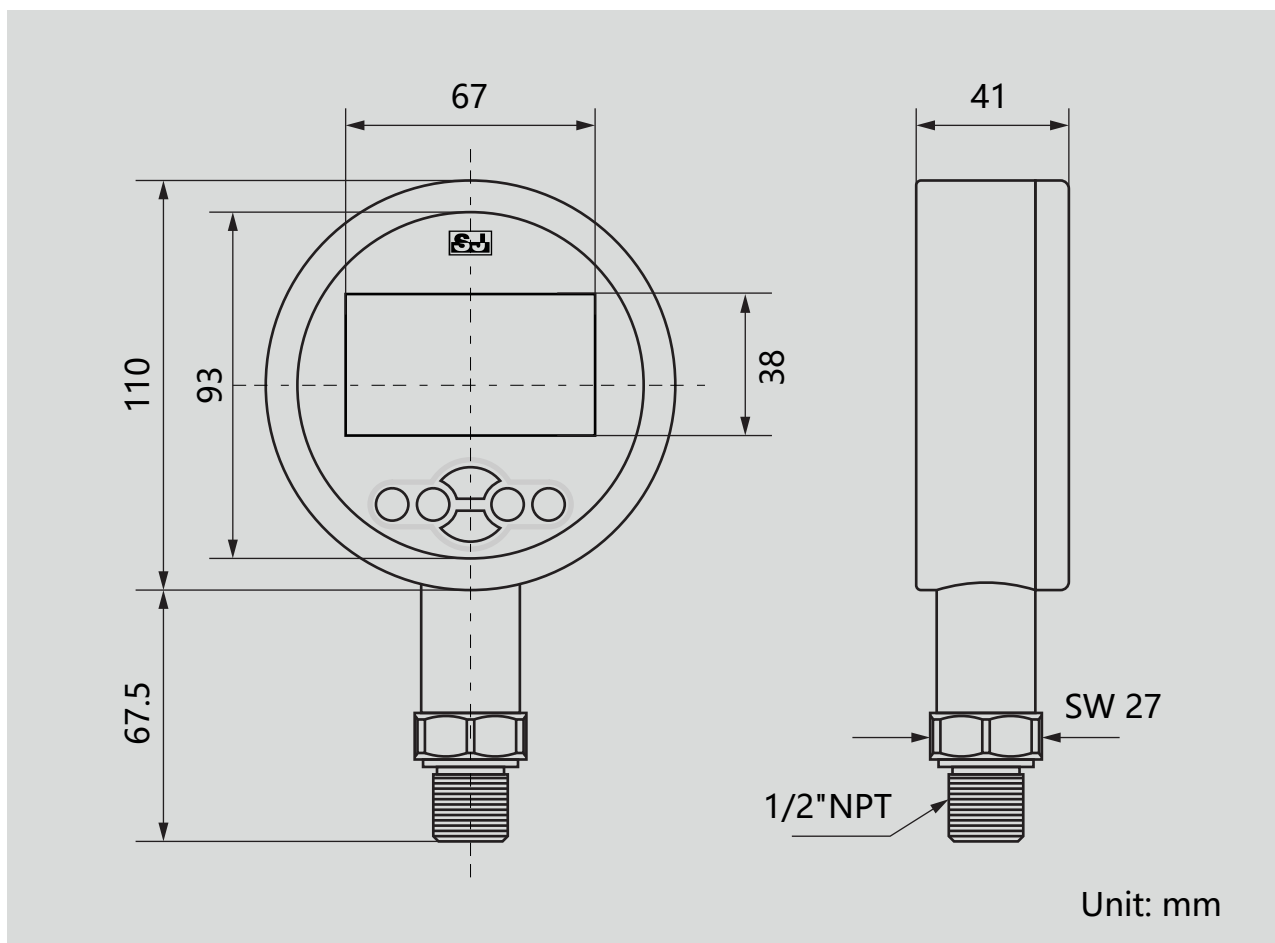
14500 chargeable lithium battery

Weight

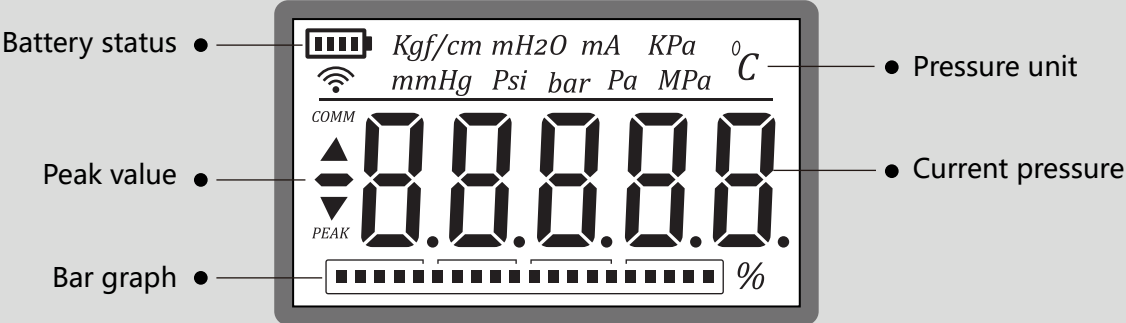
1.5 Kg

(including the box and accessories)

Dimensions



Interface Description



Accessories



Standard

Shake-proof box
size: 200mm*140mm*100mm

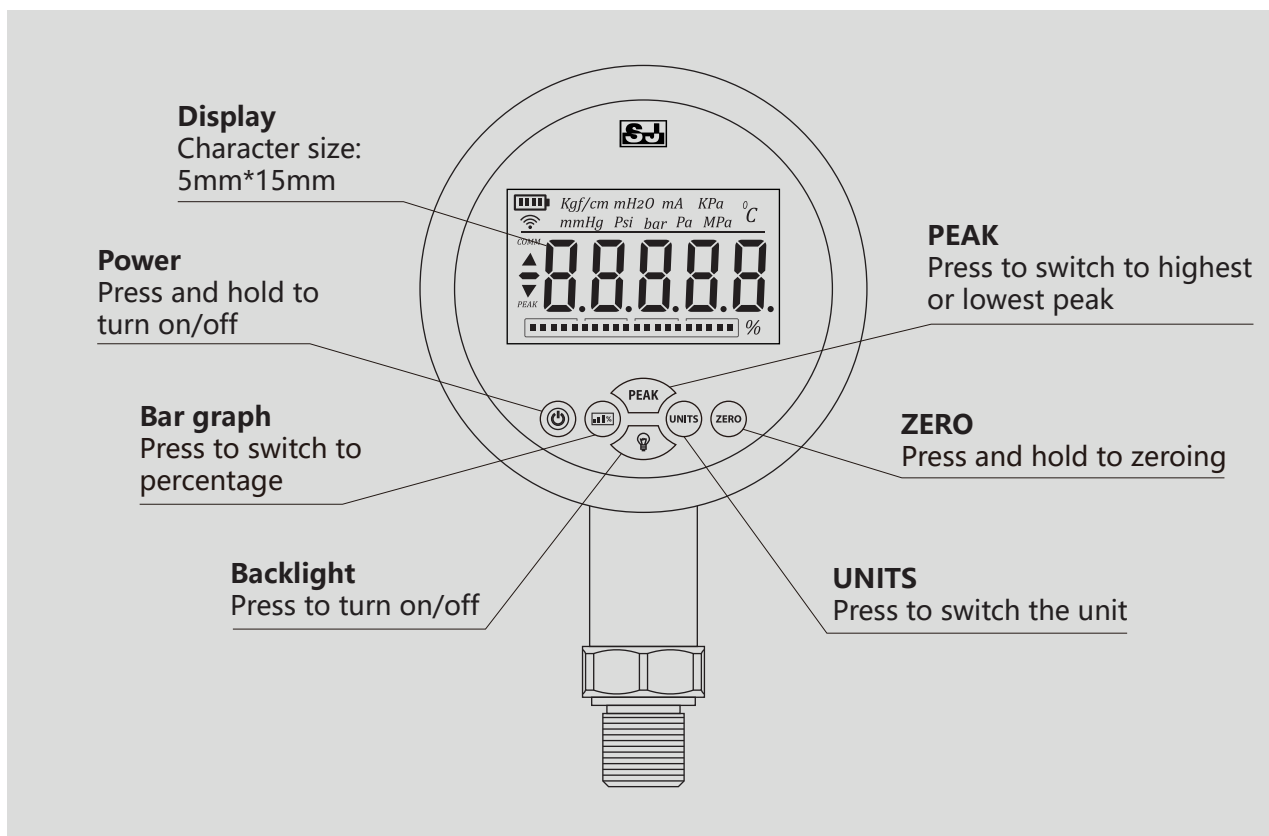


Standard

Accessory kits: charger, charging cable



Key functions



Pressure Transmitter: Analog Signal Output

Model: MXT

Product Description

- 4-20mA signal output for remote monitoring
- Digital display which allows local observation at the same time
- LED digital panel with high brightness and a wide viewing angle



Product Specification

Connection location

Bottom mount

Accuracy $\pm 1.0\%$ F.S. (standard), $\pm 0.5\%$ F.S.**Electrical connection**

2P aviation plug

Process connection304 SS (standard), 316 SS
1/4", 3/8", 1/2"; PT, G, NPT**Nominal size**

2.5"

Case/Ring

304 SS

Scale ranges0 ... 5 kPa to 0 ... 100 MPa, or
other equivalent units of pressure,
vacuum or compound**Panel**

PVC

Pressure units

Any units are available

Medium temperature -35°C ... 60°C **Display**

4 digits

Product Specification

Response time

Above 5 Hz

Voltage supply

DC16-32V

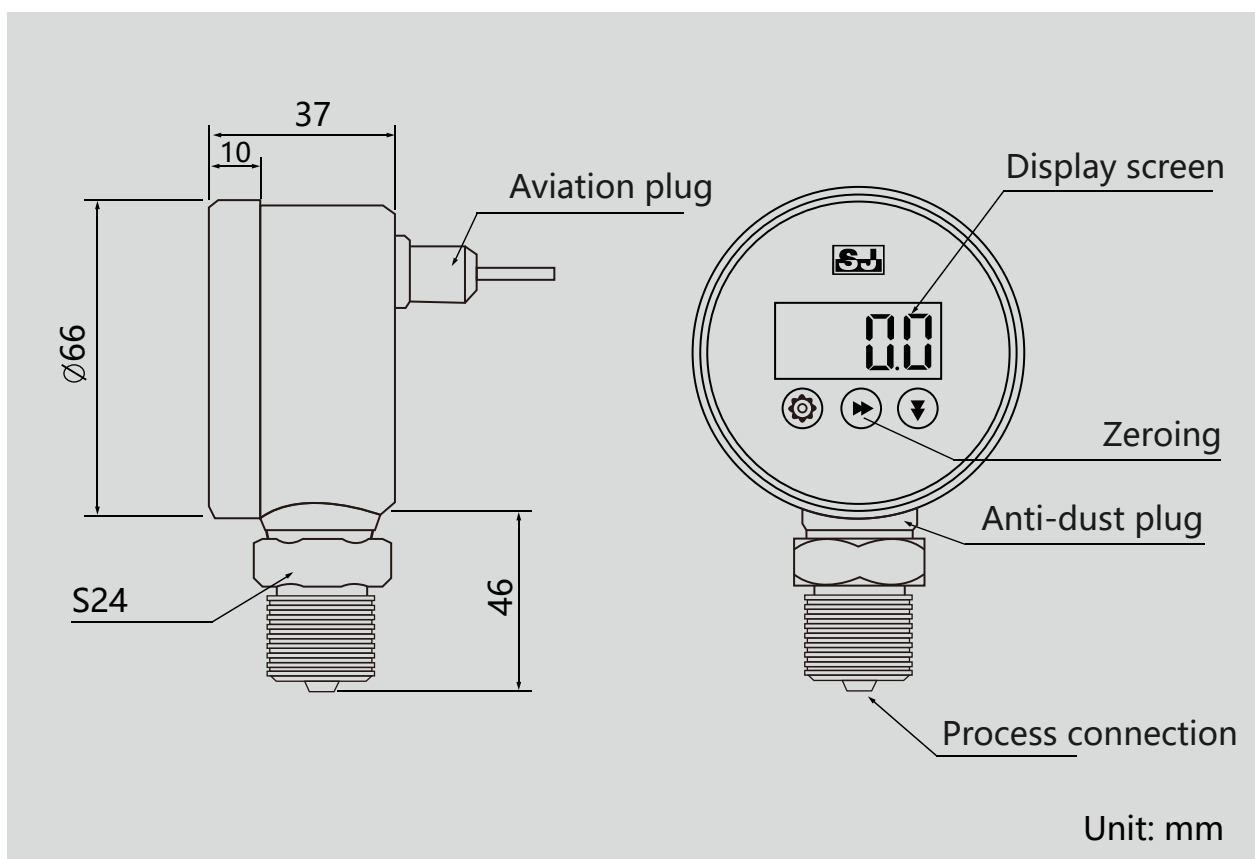
Output signal

4-20mA

Protection level

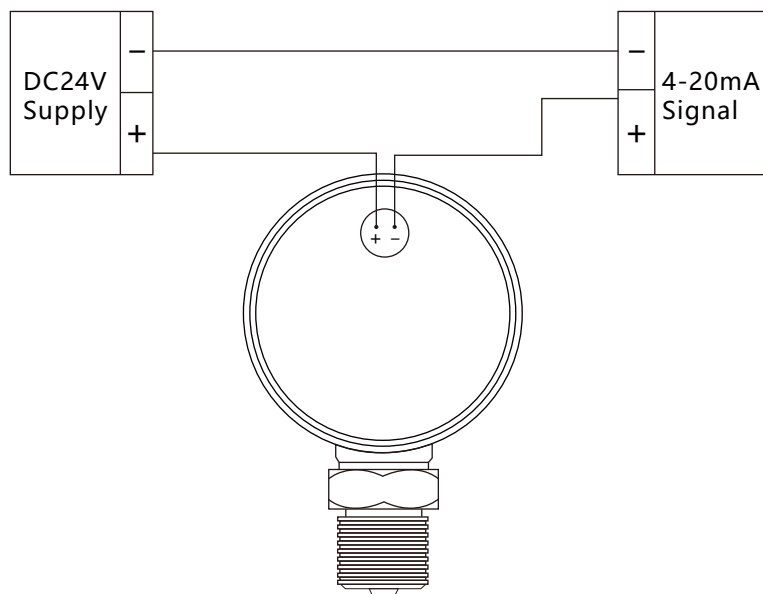
IP 40

Dimensions & Key Functions





Wiring Instruction



※ Please refer to the label on the rear of the instrument .

※ The 4-20mA signal terminal must be connected in series, otherwise the meter will not be powered on.

How to zero?

Press and hold  for 3 seconds.

FAQ

1. If the screen still display the pressure value under the zero pressure state. It is because of the slight error caused by the different atmospheric pressures in various places, which does not affect the normal use. (Please make sure that the instrument is not connected to the pressure pipeline, otherwise it will increase the equipment error.)
2. If the output mA number of the device is lower than the normal value. It may be because the power supply voltage has not reached 24V. Please check the power supply equipment.

Integrated Anti-corrosion Plastic Type

Model: PRD-APP

Product Description

- 4-20mA or RS485 signal output for remote observation
- Digital display which allows local observation at the same time
- Corrosion resistance on both case and wetted part, mainly used in the PCB industry



Product Specification

Nominal size

2.5"

Sensor element

Zirconia

Scale range

0 ... 10 kPa to 0 ... 5 MPa, or other equivalent units of pressure, vacuum or compound

Accessories (options)

Transparent plastic cover

Accuracy $\pm 1.0\%$ F.S.**Medium temperature** $-20^{\circ}\text{C} \dots 70^{\circ}\text{C}$ **Process connection**

PP; G1/2" (F)

Voltage supply

DC15-30V

Case/Ring

Nylon

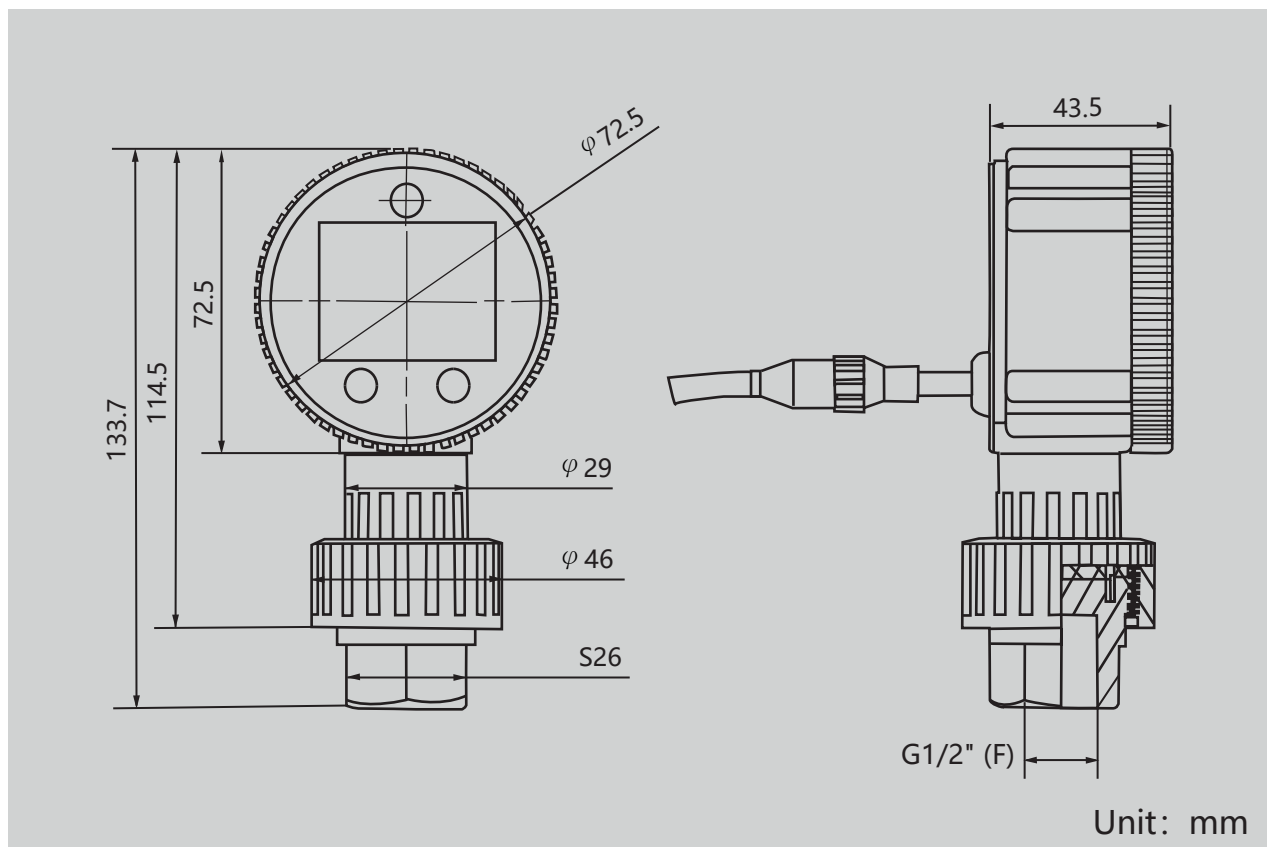
Output signal

4-20 mA, RS485

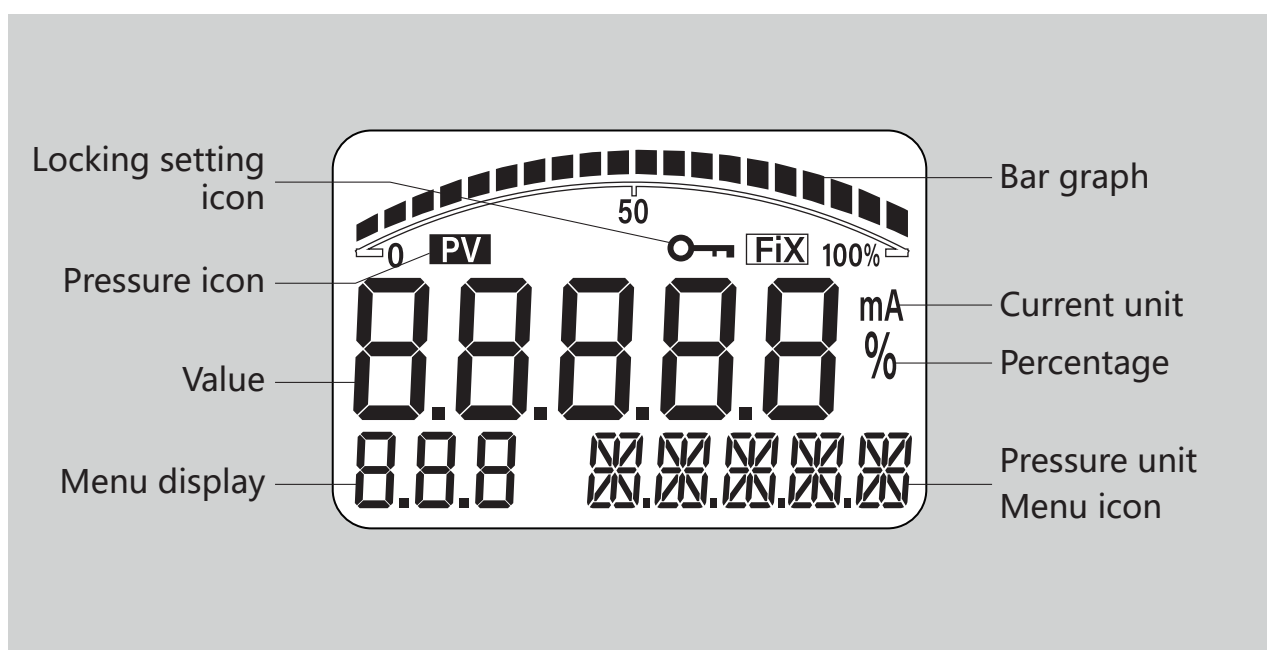
Power consumption

0.5 W

Dimensions



Interface Description



Accessories



Options

Transparent plastic cover

Double Sided PP Diaphragm Pressure Gauge

Model: PRD-DP

Product Description

- Double sided display facilitating observation and operation
- LCD monitor with backlight, beneficial to long-term monitoring
- Corrosion resistance on both case and wetted part, generally used in the PCB industry



Product Specification

Nominal size

3"

Scale ranges

0 ... 2 MPa or other equivalent units of pressure, vacuum or compound

Pressure units

MPa, kg/cm², bar, psi, mmH₂O, kPa, Pa, inWC, mbar, mH₂O, inHg, mmHg, Torr (Up to 8 units can be switched, if not specified, the engineer will select it according to the pressure range)

Accuracy

±1.0% F.S.

Process connection

Thread: nylon; core: zirconia
G1/2 (F)

Case/Ring

Nylon

Panel

Acrylic

Medium temperature

-35°C ... 60°C

Display

5.5 digits

LCD switchable backlight button

Product Specification

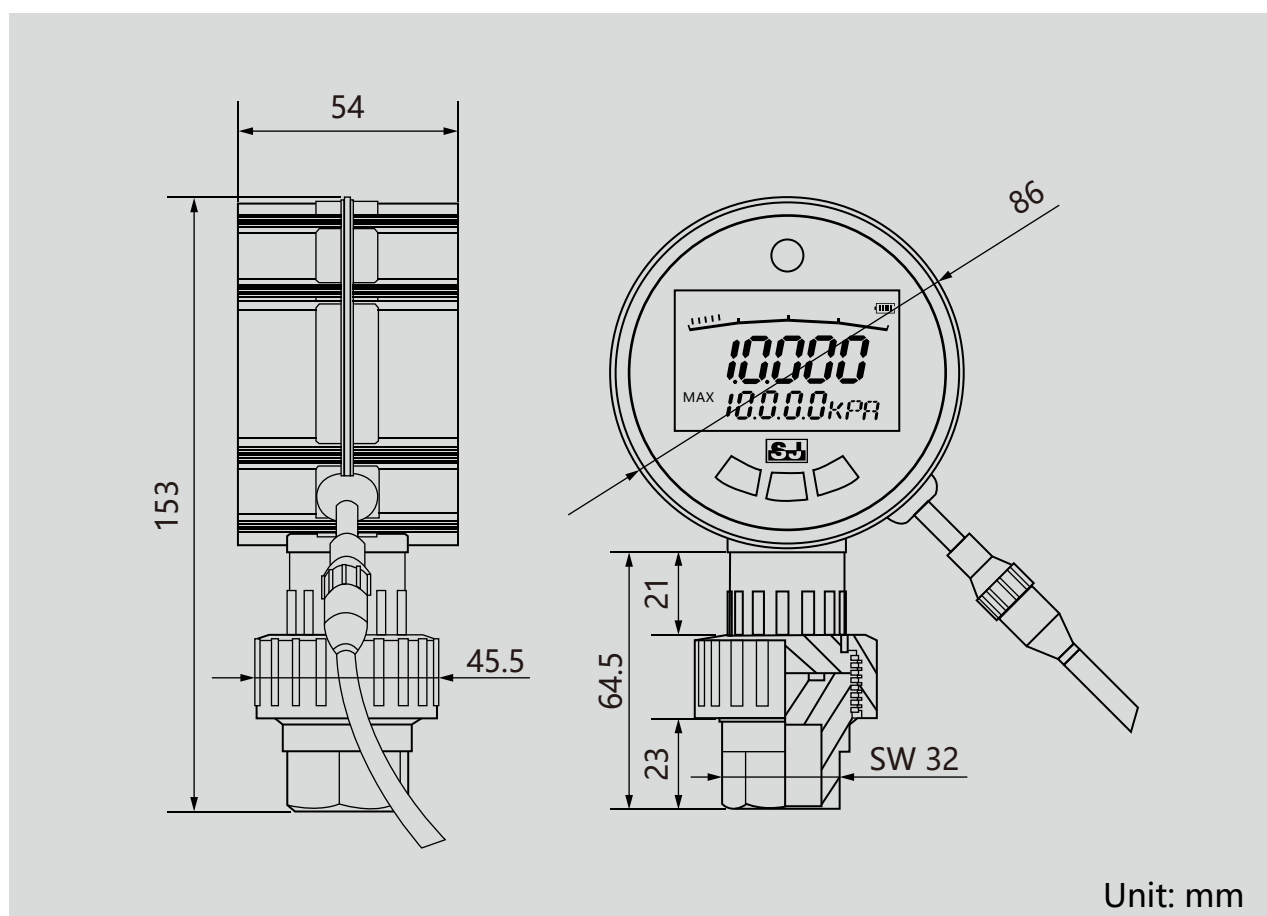
Response time

18 times/sec

Voltage supply

External power supply DC5V

Dimensions



Simple Digital Pressure Gauge

Model: PRD-TG

Product Description

- Cost-effective digital pressure gauge with a short lead time
- Intuitive interface for easy operation
- For gaseous and liquid pressure media that are not highly viscous or crystallizing



Product Specification

Nominal size

2.5"

Pressure medium

Non-corrosive gases and liquid

Scale ranges

5 ... 175 psi,

The value starts to display after

0.21 kg/cm²**Pressure units**psi, bar, kPa, kg/cm²**Accuracy**

±1.0% F.S.

Process connection

G1/4"

Resolution

0.2% F.S. ... 0.5% F.S.

Burst pressure

1.6 MPa

Medium temperature

-10°C ... 50°C

Display

3.5 digits

LCD, switchable backlight button

Power supply

AAA battery*2 (not included)

Product Specification

Working current

0.5 mA

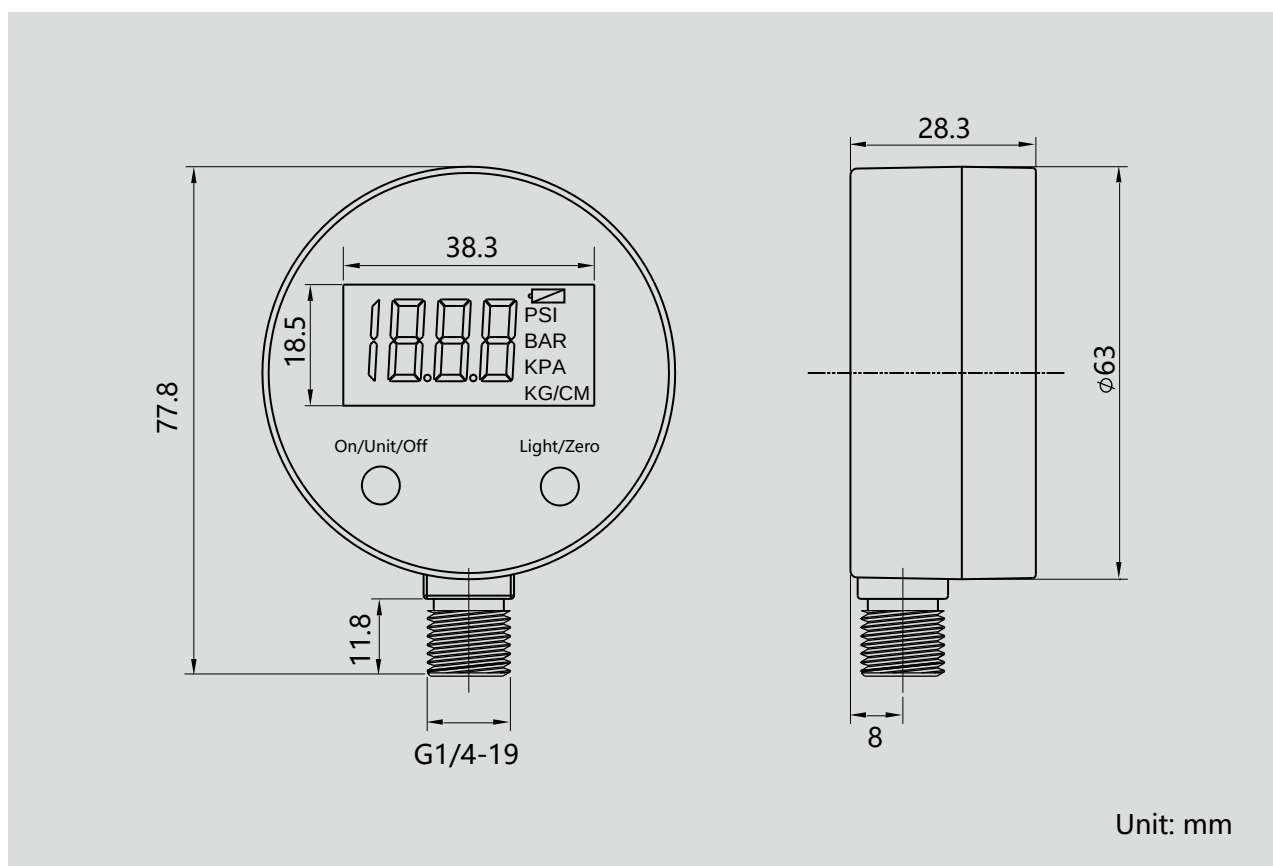
Functions

Long press "On/Unit/Off" button to turn on.
If the client doesn't press any buttons, the gauge will automatically turn off after 30 seconds by default.

Weight

80 g

Dimensions



Pressure Transmitter for General Use

Model: QD

Product Description

- Selectable output signal based on your needs (4-20mA and RS485, etc.)
- Select from waterproof connector, angular connector and aviation connector.
- Can be used as a level gauge under certain conditions



From the left side to the right: Angular connector/Circular connector/Waterproof metal connector/Waterproof plastic connector

Product Specification

Electrical connections

Angular, aviation,
water-proof plastic (Cable outlet 1 M),
water-proof metal (Cable outlet 1 M)

Scale ranges

0 ... 10 kPa to 0 ... 1000 bar,
or other equivalent units of pressure,
vacuum or compound

Accuracy

±0.5% F.S. (standard)
±0.25% F.S.

Process connection

304 SS (standard) , 316 SS
PT: 1/4", 1/2"
G: 1/8", 1/4", 1/2"
NPT: 1/4", 1/2"
M20*1.5, M14*1.5

Case/Ring

304 SS

Diaphragm

316L SS

Accessories

Cooling element: -30°C ... 200°C
(options)

Product Specification

Medium temperature

-35°C ... 60°C

Response time

$\leq 10\text{ms}$

Voltage supply

DC 16 ... 32V

Output signal

4-20mA, 0-10V, 0-5V, RS485

Zero drift

$\leq 0.1\%$ F.S.

Stability

$\leq \pm 0.15\%$ F.S. / year

Transmission distance

$\pm 100\text{M}$ (without electromagnetic interference)

Vibration resistance

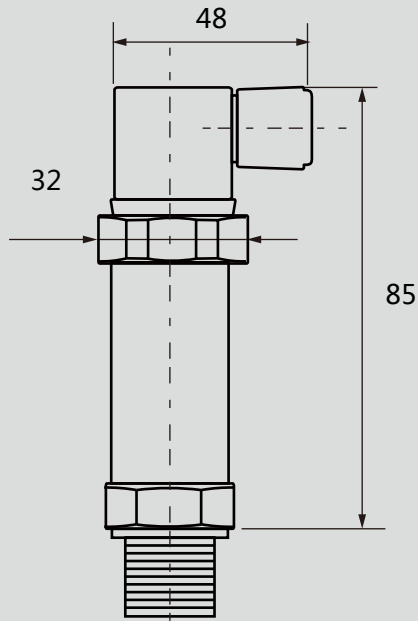
$\leq 0.15\%$ F.S. / year

Insulation resistance

$\geq 1000\text{M}\Omega$ / 100VDC

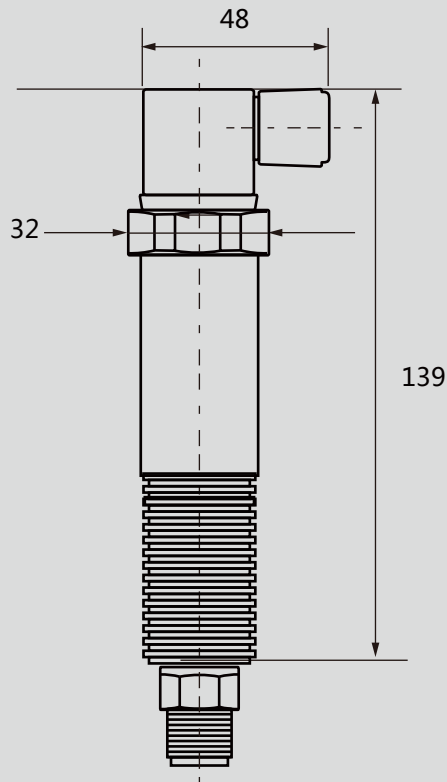
Dimensions

Angular connector



Unit: mm

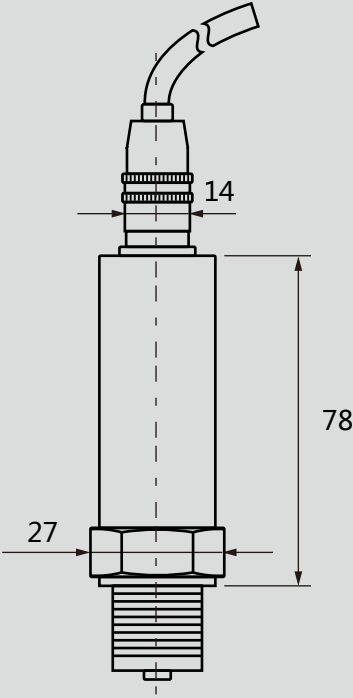
Angular connector with cooling element



Unit: mm

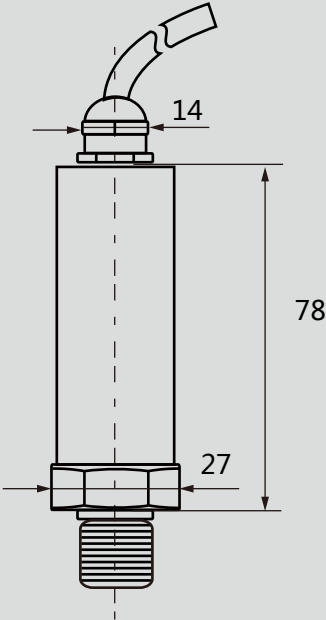
Dimensions

Aviation connector



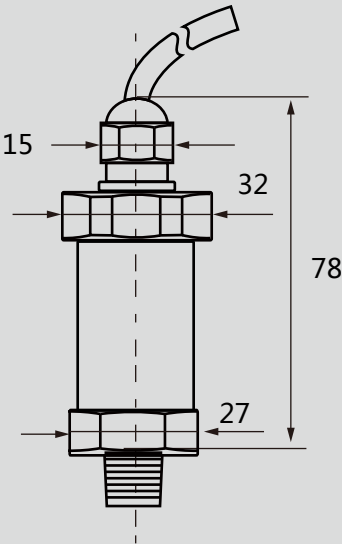
Unit: mm

Water-proof metal connector



Unit: mm

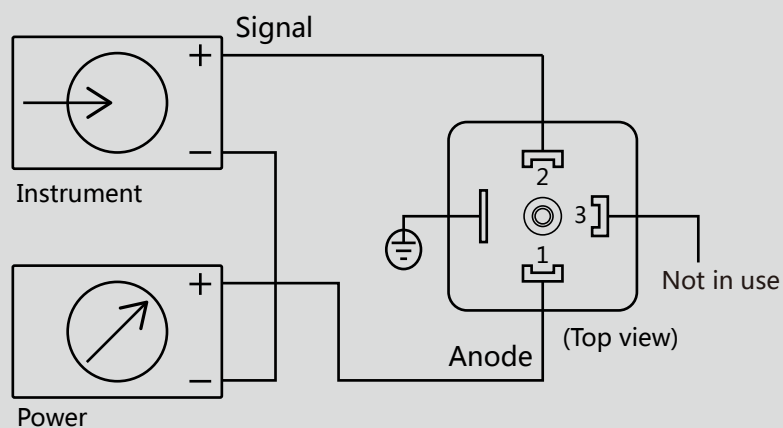
Water-proof plastic connector



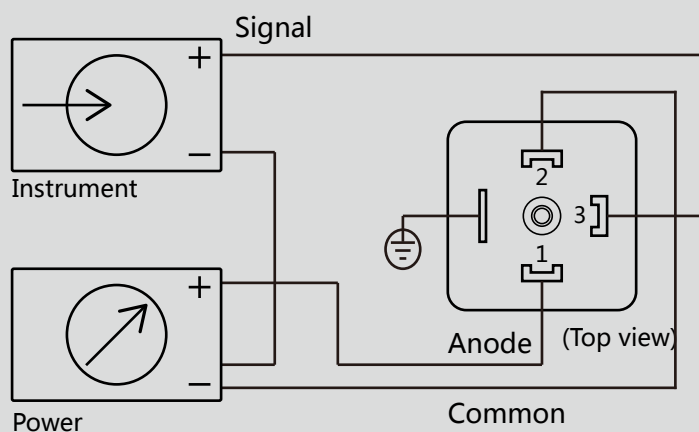
Unit: mm

Wiring Diagram

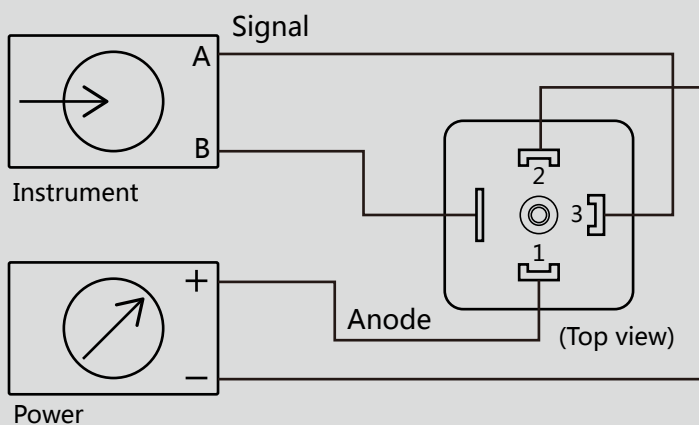
Angular connector-2 wire (4-20mA)



Angular connector-3 wire (0-5V, 0-10V)



Angular connector-4 wire (RS485)



Multi-function Dp Transmitter

Model: TWM11

Product Description

- On site customizable units and range for specific scales
- LCD backlight display, beneficial for long-term monitoring
- Limited to non-flammable and non-corrosive gases
- Usually used in filter, fan and duct pressure monitoring for building automation systems in the HVAC industry



Fig. left: With screen display

Fig. right: Without screen display

Product Specification

Version

With monitor, without monitor

Pressure medium

Gas

Scale ranges

Type	Scale range	Minimum scale range
0	-1000 ... 1000 Pa	0 ... 100 Pa
2	-10000 ... 10000 Pa	0 ... 1000 Pa
6	-100 ... 100 Pa	0 ... 10 Pa

Pressure units

Pa, mmH₂O, mbar, inWC, mmHg, daPa, kPa, hPa

Accuracy

±1.0% F.S.

Resolution

0, 2: 1 Pa, 0.1 mmH₂O, 0.01 mbar, 0.004 inWG, 0.007 mmHg, 0.1 daPa, 0.001 kPa, 0.001 hPa
 6: 0.1 Pa, 0.01 mmH₂O, 0.01 mbar, 0.01 daPa, 0.001 hPa

Pressure limitation

0: 15 kPa
 2: 150 kPa
 6: 4.5 kPa

Medium temperature

-10°C ... 60°C

Product Specification

Ambient temperature

-10°C ... 70°C

Response time

0.5 s, 1 s, 2 s, 4 s

Voltage supply

12-30VDC

Power consumption

≤ 1.5W

Output signal

2-wire: 4-20mA

3-wire: 0-5VDC, 0-10VDC

4-wire: RS485

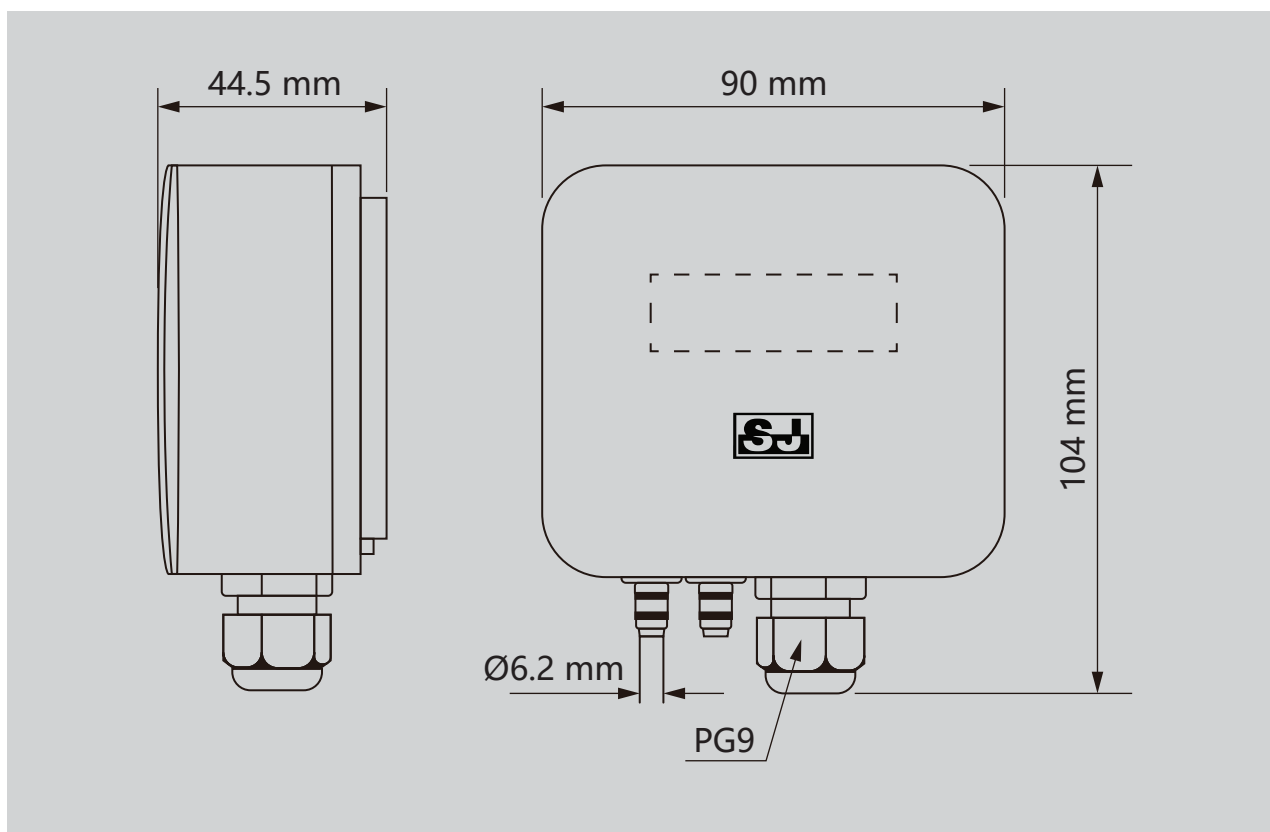
6-wire: 4-20mA & 0-5VDC, 4-20mA

& 0-10VDC

Zero adjustment

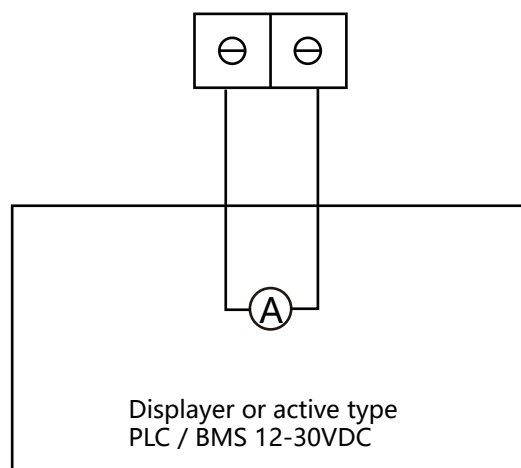
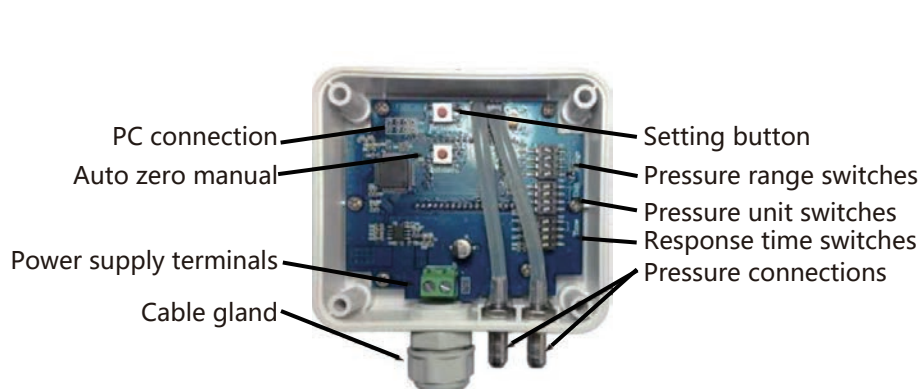
By manual or automatic operation

Dimensions

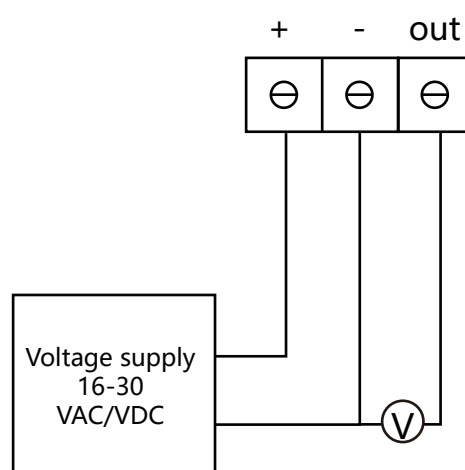
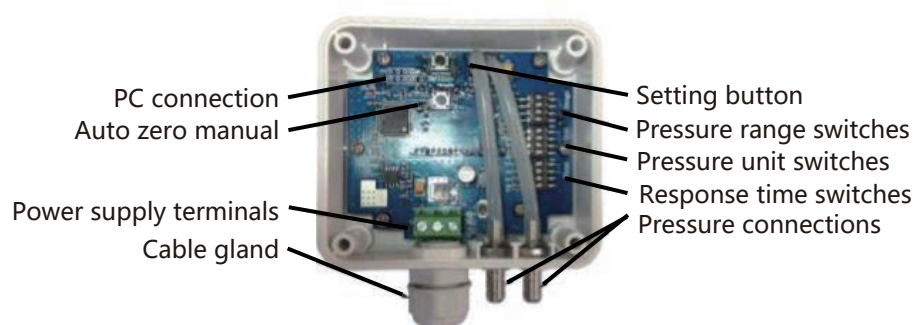


Wiring Diagram

2-wire (4-20mA)

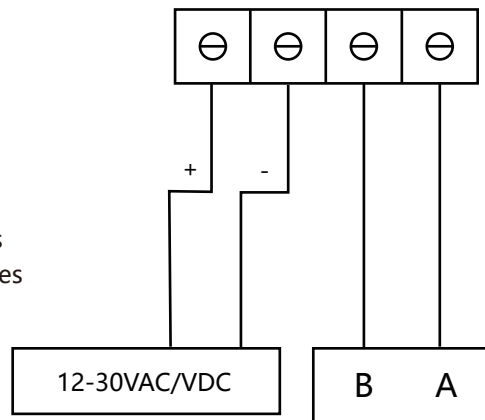
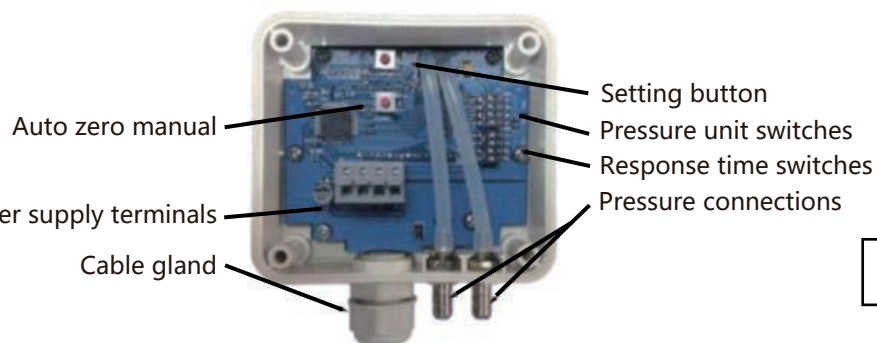


3-wire (0-5VDC, 0-10VDC)

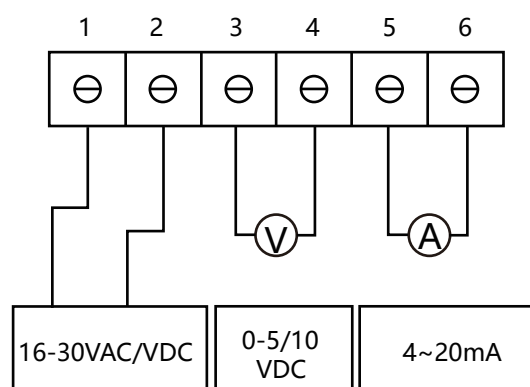
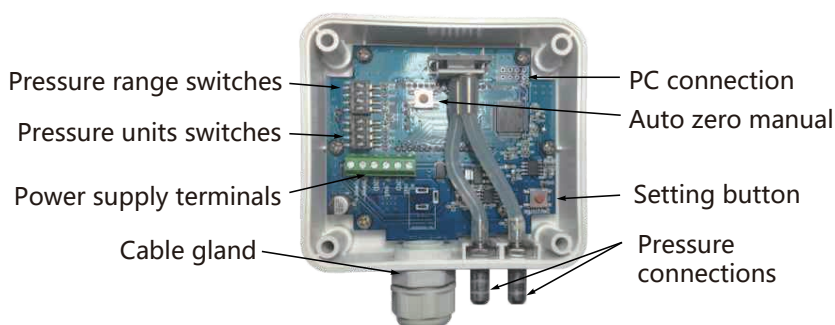


Wiring Diagram

4-wire (RS485)



6-wire (4-20mA & 0-5VDC, 4-20mA & 0-10VDC)



1. Power+ VAC/VDC L
2. Power- VAC/VDC N
3. Output signal GND
4. Voltage output signal V_{out}
5. Output signal GND
6. Current output signal I_{out}

※ Note: The standard will produce 4~20mA&0~10V, if you need to produce 4~20mA&0~5V, please specify in the order.



Basic functions

1. Display function:

Display pressure and pressure unit, available as Pa, mmH₂O, inWC, mmHG, daPa, kPa, hPa, mbar.

2. Function settings:

Precision calibration is through the circuit board by pushing the button. Taking -1000pa to 1000pa as an example, when the button activated, the sensor will enter into the precision calibration status. Input the pressure supply to -1000 Pa and push the button to save the -1000Pa pressure value. Then validating the setting for each additional 500pa. If the next value smaller than the previous one, the validation is invalid and will display "Err" without saving the value. Usually, we set the pressure range with professional machines and workers before shipment, customers are not encouraged to set the pressure.

3, Manual zeroing:

Push the auto zero manual button for resetting. (If any deviation of pressure value or output, please reset the transmitter parallel with the installation)

Dial-up switch swtting

1. Range setting:

Set the pressure range by the pressure range switch. (The range is correlated to the output. For example, 0~100pa carries with the corresponding 4 ~ 20mA and 0 ~ 5VDC/0 ~ 10VDC.)

	Model	Unit	Pa	mmH ₂ O	mbar	inWG	mmHG	daPa	kPa	hPa
4	TWM116		10.0	1.00	0.100	/	/	1.00	/	0.100
3	TWM110		100	10.0	1.00	0.40	0.75	10.0	0.100	1.00
2	TWM112		1,000	100.0	10.00	4.00	7.50	100	1.000	10.00
1										
4	TWM116		25.0	2.50	0.250	/	/	2.50	/	0.250
3	TWM110		250	25.0	2.50	1.00	1.87	25.0	0.250	2.50
2	TWM112		2,500	250.0	25.00	10.00	18.75	250.0	2.500	25.00
1										
4	TWM116		50.0	5.00	0.500	/	/	5.00	/	0.500
3	TWM110		500	50.0	5.00	2.00	3.750	50.0	0.500	5.00
2	TWM112		5,000	500.0	50.00	20.00	37.50	500.0	5.000	50.00
1										
4	TWM116		75.0	7.50	0.750	/	/	7.50	/	0.750
3	TWM110		750	75.0	7.50	3.00	5.62	75.0	0.750	7.50
2	TWM112		7,500	750.0	75.00	30.00	56.20	750.0	7.500	75.00
1										
4	TWM116		100.0	10.00	1.000	/	/	10.00	/	1.000
3	TWM110		1,000	100.0	10.0	4.00	7.50	100.0	1.000	10.00
2	TWM112		10,000	1,000.0	100.00	40.00	75.00	1,000.0	10.000	100.00
1										



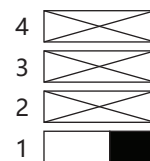
■ Full range/Central zero (take 0~1,000 Pa as an example)

To set the type of measuring range by adjusting the pressure range switch as indicated.

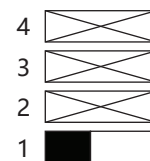
※ Note:

Please follow carefully the combinations above the Dial-up switch.

If the combination is wrongly done, the following message will appear on the display as "Err". In that case, you have to unplug the transmitter, place the Dial-up switches correctly and then power the transmitter up.



Full range:
0 ... 1000 Pa



Central zero
(compound):
-500 Pa ... 500 Pa

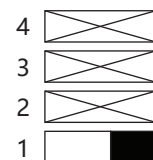
2. Unit setting

Set the pressure unit by adjusting the dial up switches referring to following combination

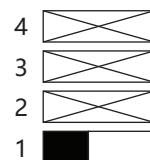
Pressure unit	Pa	mmH ₂ O	mbar	inWG
Combination	4 3 2 1	4 3 2 1	4 3 2 1	4 3 2 1
Pressure unit	mmHG	daPa	kPa	hPa
Combination	4 3 2 1	4 3 2 1	4 3 2 1	4 3 2 1

3. Auto zero function setting

Dial the switch 1 to activate or deactivate the auto zero function when powering up(the transmitter will be auto zeroed when activate this switch and vise versa)



Deactivate auto
zero switch



Active auto
zero switch



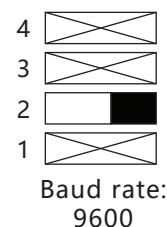
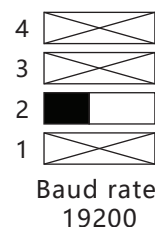
4. Response time

Set the response time by adjusting the time response dial up switches referring to following combination

Response time	0.5 s	1 s	2 s	4 s
Combination	4 3 2 1	4 3 2 1	4 3 2 1	4 3 2 1

5. RS485 model setting:

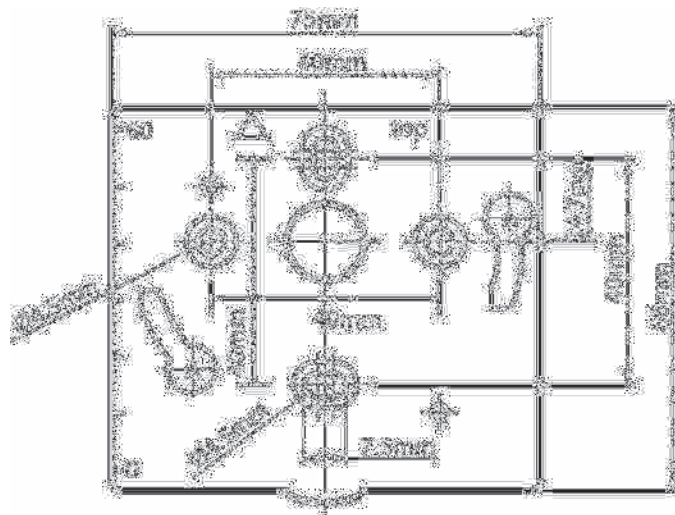
We included the RS-485 communication function in time response dial up switches. By dial up the switch 1 and 2 in following combination to change the baud rate either in 19200 or 9600(Only workable for RS485 differential transmitter)



※ In the Figure 4 there are a set of resistor jump which could be connected for reducing signal interference when the communication distance above 300 meters.

Mounting

To mount the transmitter, mount the ABS plate on the wall (drilling: Ø 6mm, depth 30 mm, screws and pins a resupplied) Insert the transmitter on the fixing plate (see A on the drawing) Rotate the housing in clockwise direction until you hear a 'click' which confirms that the transmitter is correctly installed.



Maintenance

Please avoid any aggressive solvent and protect the transmitter and its probes from any cleaning product containing formalin, that may be used for cleaning rooms and ducts.



Accessories

PVC tube, 2 pressure connectors, ABS mounting plate

FAQs

■ The display range or units do not tally with the Settings.

- ① dial the code switch is not in place, the electricity to restart the redial later.

■ Pressure pressure showed no change or the output value (display of 0 or FULL), or change is not allowed.

- ① whether the load pressure over blasting pressure directly blunt bad core body;
- ② whether there is corrosive or use media. And the purchased product applicable medium exist discrepancy (existing micro differential pressure transmitter are for no corrosive gas);
- ③ check whether there is any foreign bodies blocked on inlet hose (particulate matter or water) or leakage;
- ④ using the environment temperature is beyond compensation temperature range (micro differential pressure transmitter temperature compensation range -10 ... 60°C);
- ⑤ with and without the pressure to zero wrong operation, such as there is no input in determining the state of stress under the reset again;
- ⑥ have corrosive Settings button of wrong operation (Settings button to prevent wrong operation mechanism, namely the set point pressure value must be increasing from small to big to finally set up successful, needs to be in high precision pressure source under the calibration set, don't recommend customer to calibration, such as the deviation caused by the calibration operation, must be returned to the factory heavy school).

■ Pressure normal value, no output analog or analog output is not allowed.

- ① check the output line connection is normal;
- ② three wire system output is to detect transducer with control instrument is normal (i.e., ground wire must be connected to);
- ③ check the load resistance to choose proper.

■ The zero pressure value drift slightly.

- ① clear operation after drift stability.

If the above method cannot eliminate the fault, contact the manufacturer!

Differential Pressure Controller

Model: TWM30

Product Description

- Support multiple working modes
- Built-in buzzer with sound-light alarm, field programmable alarm pressure value
- Used to measure fan and blower pressure, filter resistance, medical equipment, etc



Product Specification

Electrical connections

Cable outlet (0.5 cm)

Accuracy

 $\pm 1.0\%$ F.S.

Nominal size

4.5"

Process connection

Quick coupler

Air inler way: front panel, back panel, side panel

Pressure medium

Gas

Case/Ring

ABS

Scale ranges

0 type: -1000 ... 1000 Pa

2 type: -10000 ... 10000 Pa

6 type: -100 ... 100 Pa

Pressure limitation

0 type: 10 kPa

2 type: 80 kPa

6 type: 5 kPa

Pressure units

Pa, kPa, mbar, mmHG, inWC, mmWC

Ambient temperature

 $-20^{\circ}\text{C} \dots 70^{\circ}\text{C}$

Product Specification

Medium temperature

-10°C ... 60°C

Display

LCD, switchable backlight button

Voltage supply

DC 16-30 V

Output signal

None, 4-20mA & 0-10V, RS485

Relay

2 SPDT RELAY 3A@250VAC/30VDC

Control signal

None, 2 SPDT RELAYS

Power consumption

≤ 2.5W

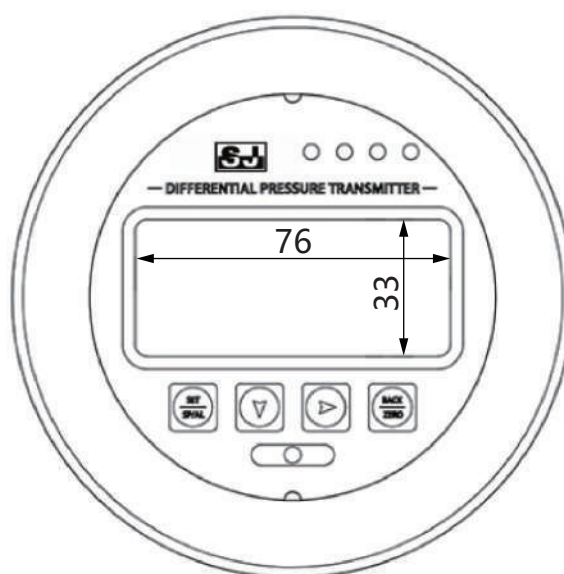
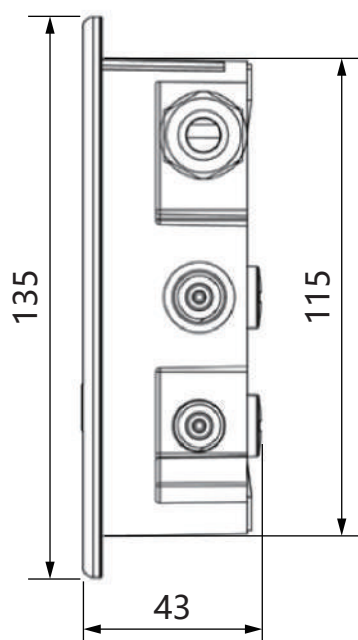
Protection level

IP 54

Weight

360 g

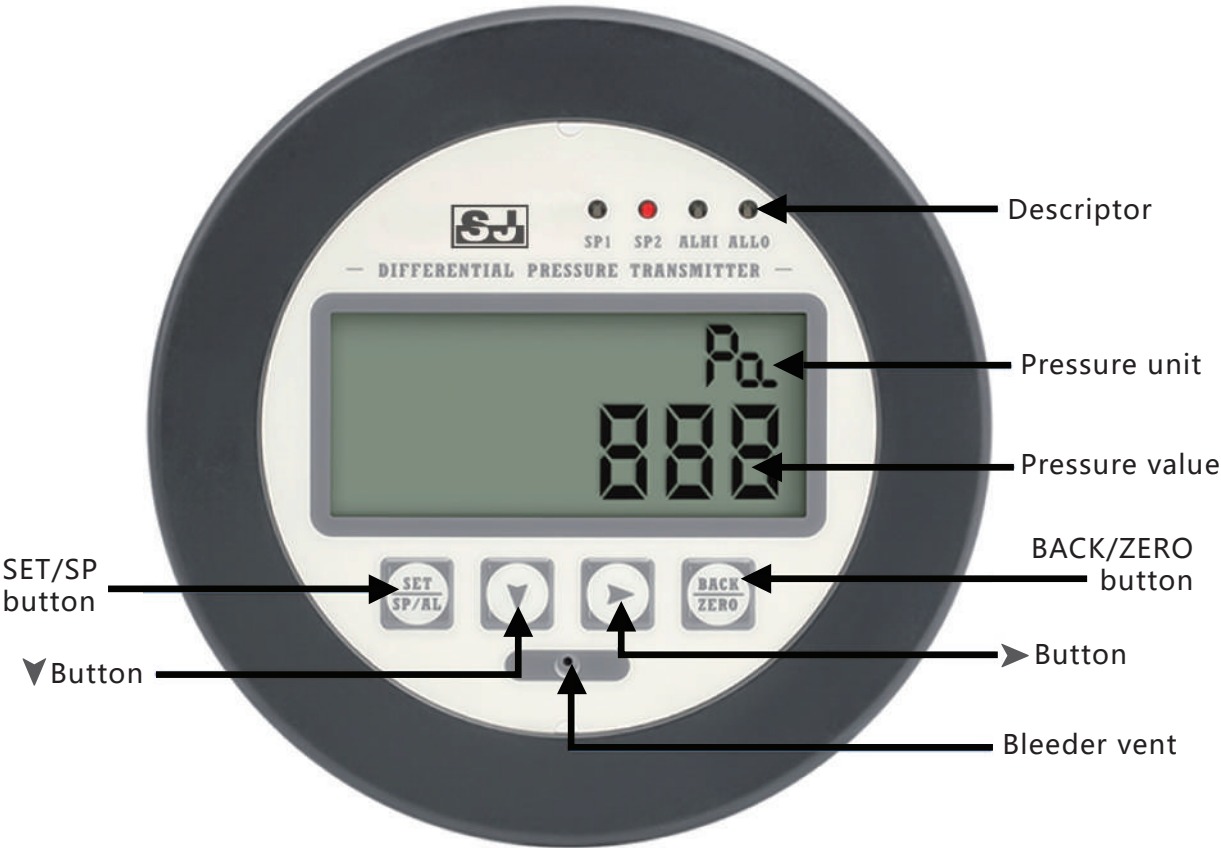
Dimensions



Unit: mm



Panel Display





Menu Instruction

	Pressure Display	Main Menu	Sub-menu
	1. Press to enter the main menu 2. Press and hold to enter the control point setting and alarm point setting	Press to enter the sub-menu	1. Enter the sub-menu function setting 2. Save the parameter setting (the parameter flashes during setting)
	Eliminate the buzzer alarm sound	Scroll down the main menu to switch the sub-menu function switch	1. Decrease the value 2. Move the setting button switch
	Backlight switch	X	Increase the value
	1. Press to cancel the alarm status 2. Press and hold to reset the setting	Back to Main Menu	1. Return to the previous main menu 2. Press and hold to return to the main menu

※ Note: Press and hold for 3 seconds.

■ Set point and alarm setting sort display:

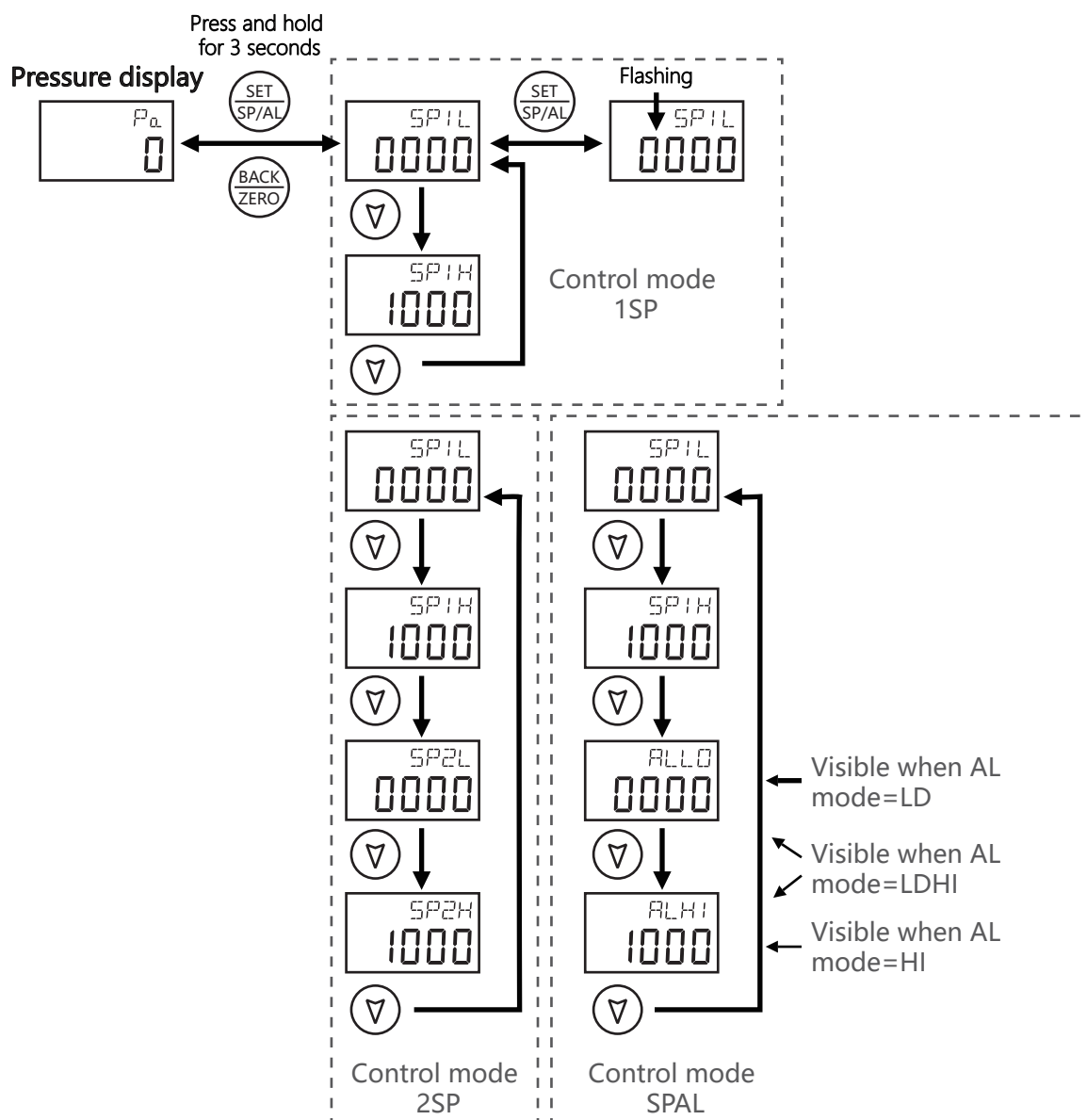
Press and hold  to enter the relay control point and alarm point setting menu. This menu display is based on the control mode selection in the submenu. 3 control modes are set separately:

- (1) ISP: Control relay works alone
- (2) 2SP: Control relay and alarm relay work independently
- (3) SPAL: Control relay work and alarm relay is used as alarm function output

In the 2SP mode, the alarm relay works; in the control mode, SP2H and SP2L are the high and low points of its control action respectively; for specific control logic, please refer to P6 "Out output". In the SPAL mode, the alarm relay works in the alarm state output mode, ALHI and ALLO are respectively the high and low points of its alarm signal output.

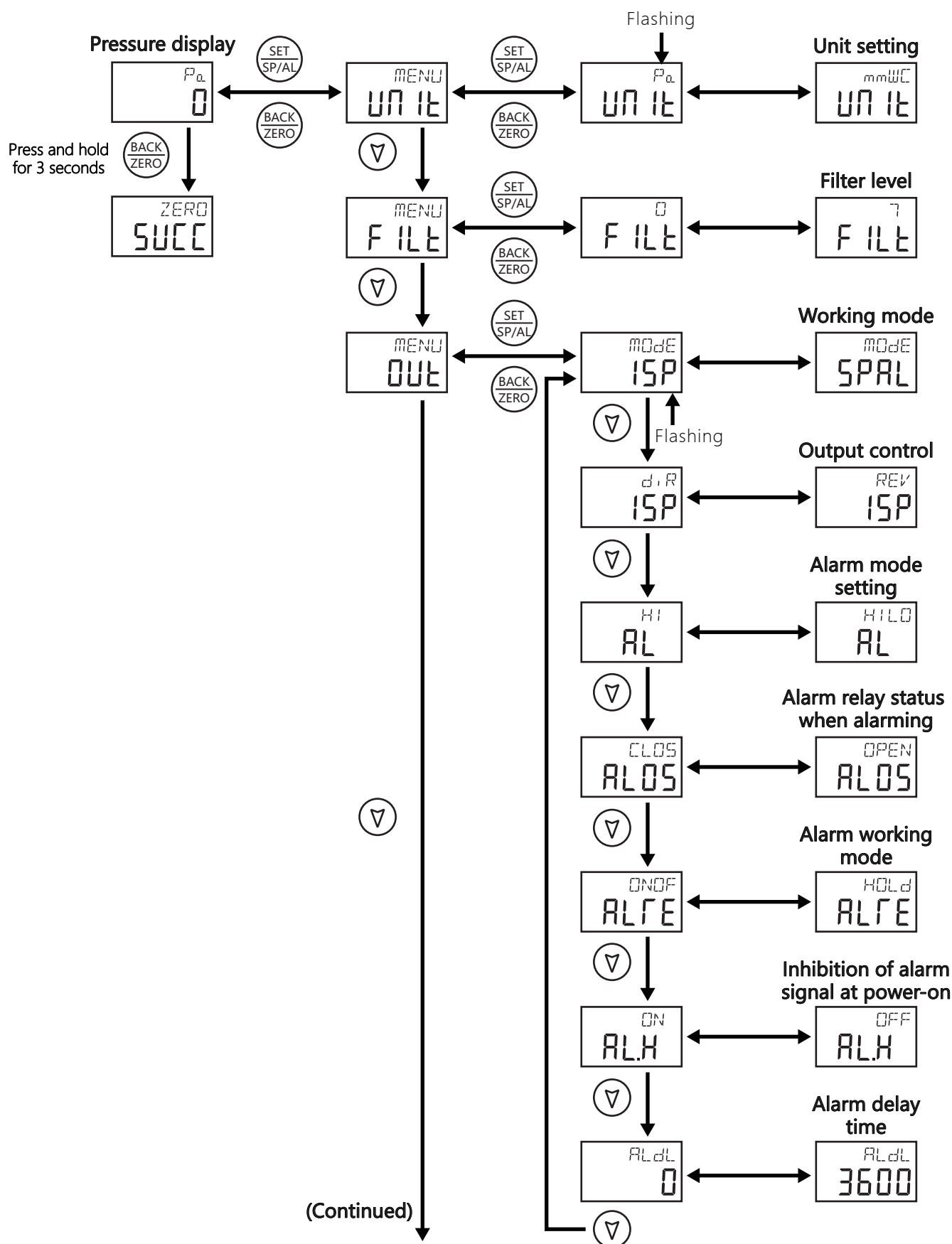


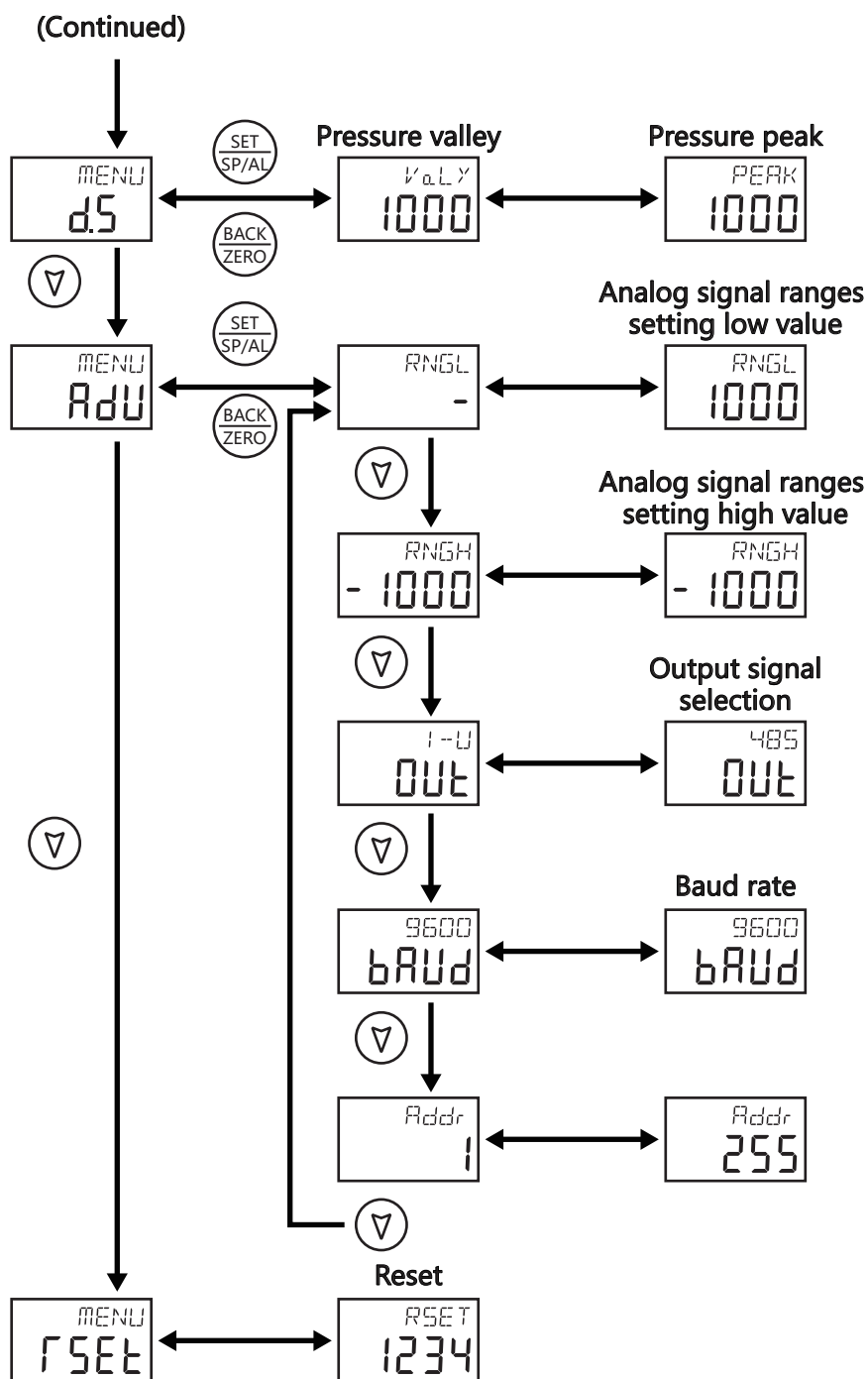
■ Menu navigation:
control point setting and alarm point setting





■ Menu navigation: main menu







Instruction of Main Menu Functions

■ **UNIT** pressure unit

Used for pressure unit selection and setting.

Pascal (Pa), kilopascal (kPa), Millibar (mbar), millimeters of mercury (mmHG), inches of water column (inWC), millimeters of water column (mmWC)

Among them, only Pa, mmWC, mbar three units can be selected when the range is -100 ... 100 Pa.

■ **FILT** pressure filter level

A total of 0~7 filter levels can be used. Used to adjust the air pressure detection sensitivity.

■ **OUT** output

Used to set the working mode setting, 1 control output, 2 control output or 2 control and alarm output mode.

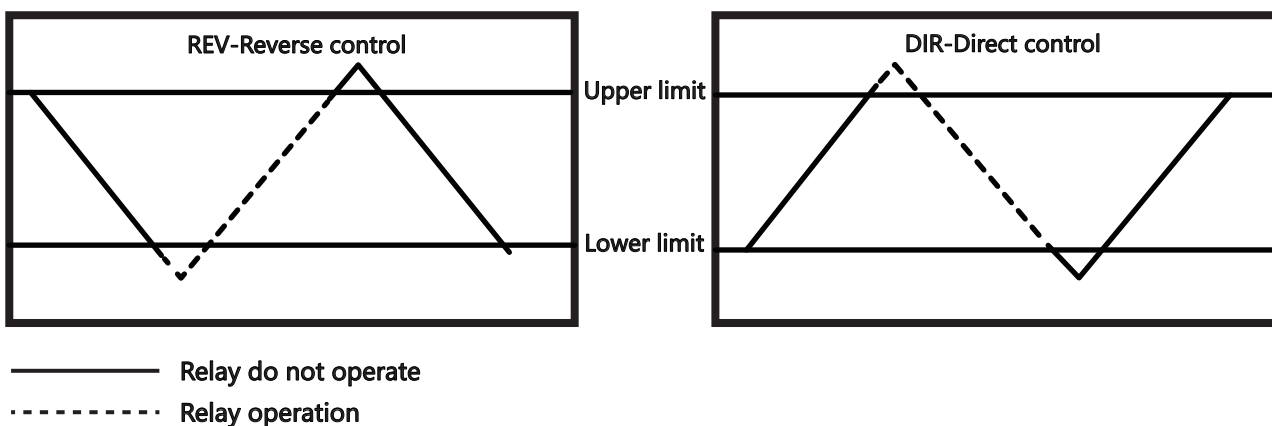
(1) MODE submenu (working mode setting):

1sp: 1 relay control output

2sp: 2 relay control output

Spal: 1 relay control output, alarm relay status output

(2) 1SP submenu (for 1 relay control direction):



(3) AL submenu (alarm mode setting):

HI-high pressure alarm, Lo-low pressure alarm, Hilo-high and low pressure alarm

(4) ALOS sub-menu (alarm relay status when alarming):

Clos-The alarm relay will act on when it alarms;

Open-When alarming, the alarm relay action is disconnected;



(5) ALrE sub-menu (alarm working mode):

Onof-Alarm automatically turns on and off

Hold-Alarm status is maintained until the alarm is manually cancelled

(6) AL.H sub-menu (inhibition of alarm signal at power-on):

N-Turn on the power-on alarm signal suppression; eliminate the low-voltage alarm when starting up

Off-Turn off the suppression of the power-on alarm signal; the low-voltage alarm is directly output when the power is turned on

(7) ALdL submenu (alarm delay time):

0-3600: The maximum delay is 3600 seconds

■ **dS display**

Peak: Pressure peak; valy: pressure valley

■ **AdU more settings**

Output signal control and RS485 control parameter settings.

(1) RNGL: analog signal range setting low value;

(2) RNGH: analog signal range setting high value;

(3) Out: output signal selection

I: Single current signal output U: Single voltage signal output

I-u: current and voltage signal output 485: 485 signal output

(4) bAUd: RS485 communication baud rate setting

(5) Addr: RS485 communication address ID setting

■ **rSEt reset**

Enter the number 1234 to confirm the factory reset.

System Error Remark

Err1 : Zero clearing failed

Err2: Failed to set the max limit (the max limit must be greater than the min limit)

Err3: Failed to set the min limit (the max limit must be greater than the min limit)

Err4: The password for restoring factory settings is entered incorrectly

Err5: Pressure sensor error



Electrical Connections

- **Cable outlet type:** connect according to the corresponding wire color.

Connection	Cable outlet	Description		
M10	Power +	DC power cord interface		
	Power -			
	4~20mA Output	Current output port, connect to the positive end of the multimeter, and the other end to Power-		
	0~10V Output	Voltage output port, connect to the positive end of the multimeter, and the other end to Power-		
	RS485_A	RS485 Communication interface		
	RS485_B			
Connection	Cable outlet	Cable description	Cable outlet function	Cable description
M16	SP1 RELAY N/O	Normal open	SP2 or Alarm RELAY N/O	Normal open
	SP1 RELAY COM	Common	SP2 or Alarm RELAY COM	Common
	SP1 RELAY N/C	Normal close	SP2 or Alarm RELAY N/C	Normal close

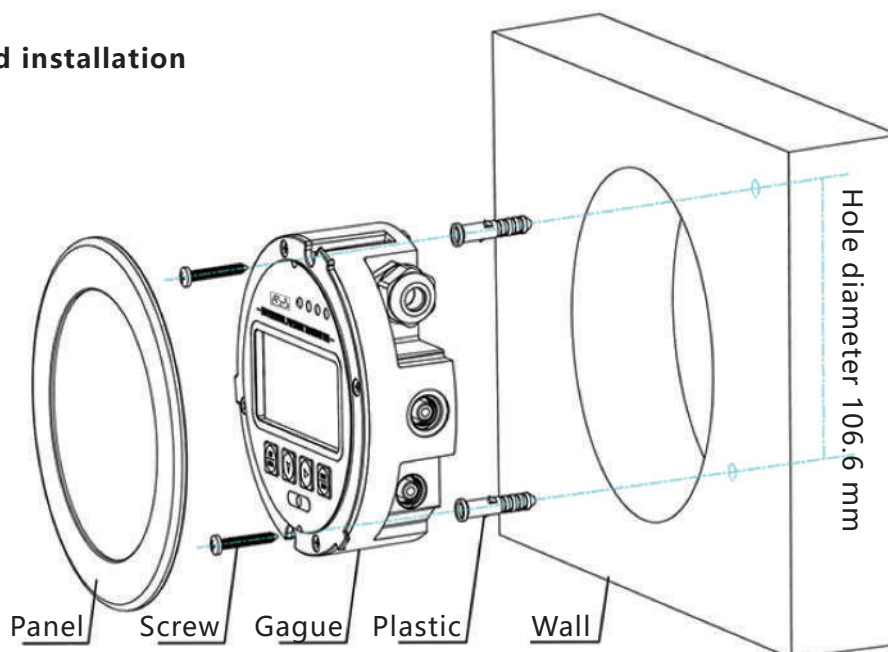
■ Trachea connection

The back of the product supports side and back air intake; the back and the side vents are connected; therefore, after using one of the vents, you need to plug the vent on the other side with a plug; the + hole connects the trachea to the high pressure area to be measured;- Connect the trachea to the low pressure area to be measured.



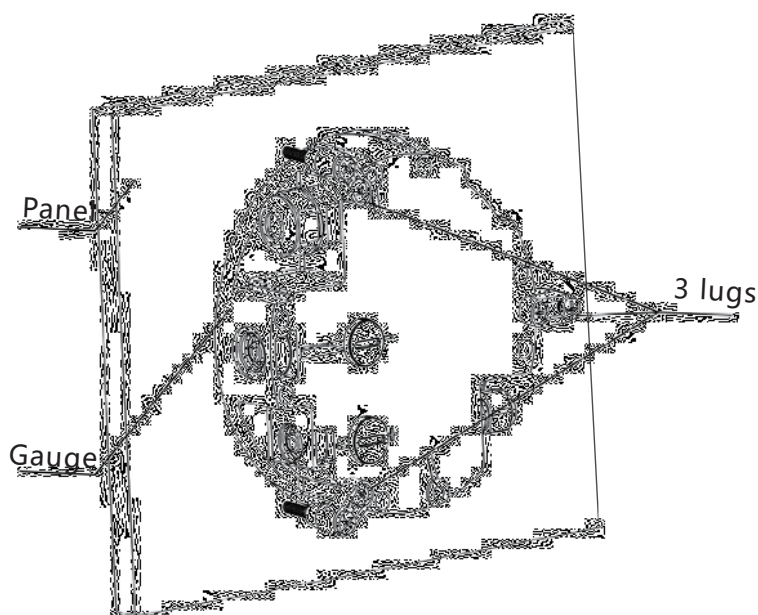
Installation

■ Embedded installation



■ Panel installation

Open a 120mm diameter hole on the panel to be installed, insert the product from the front of the panel, and finally install the lug on the back, and then fix it on the panel from the back with ST3.5x30 screws. The pressure port and the air pipe are connected reliably, pay attention to the difference between the high and low pressure ports.



■ Accessories

Static pressure tips, plastic lug, self-modified screw, wall head, expansion tube, PU tube



Frequently Asked Questions

■ **The pressure display or output value does not change after pressurization (mostly displayed as 0 or FULL) or the change is not accurate.**

- (1) Whether the loading pressure exceeds the burst pressure and directly breaks the pressure core.
- (2) Whether the medium used is corrosive or differs from the applicable medium of the purchased product.
- (3) Check whether the intake hose is blocked by foreign matter (particulate matter or water column) or leaks.
- (4) Whether the use environment temperature exceeds the compensation temperature range.
- (5) Whether there is a misoperation of clearing during pressurization, if any, clear again after confirming that there is no input pressure.

■ **A slight drift in the zero pressure value**

After the drift is stable, perform the reset operation.

■ **Attention**

- (1) The power supply should be disconnected during the installation process, and the power interface should not be short-circuited, otherwise it will bring unpredictable consequences and even damage the product.
- (2) Please use within the rated voltage range.
- (3) Do not make the pressure exceed the withstand pressure value, otherwise it may damage the product and safety.
- (4) Some unused output wires need to be wrapped with insulating tape to avoid possible short circuits.



MEDIDORES DE PRESION

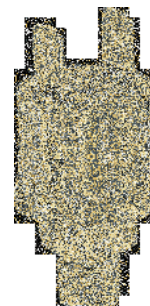
INTERRUPTOR
DE CONTACTO

Small size Multi-purpose Pressure Switch

Model: MPS

Feature of Product

- Able to choose Automatic reset or manual reset
- Wide pressure range, Be applicable to multi work situation
- Application to air、 water pressure control, Indoor air conditioner system or more...



Product Specification

Pressure range

0~45 bar

Burst pressure

5000 psi

Thread size

1/8", 1/4", other size is able to customize

Thread type

PT, PF, NPT, UNF, other type is able to customize

Thread material

Brass, Stainless steel

Electrical connections

6.35x4.8, 4.8x0.8; Electric cable connect

Switch type

Single Pole Single Throw (normal open / normal close)

Single Pole Double Throw

Reset pattern

Automatic reset, Manual reset

Electrical parameters

120Vac 6FLA, 40.2LRA;

240Vac 4FLA, 26LRA;

120/240Vac 375VA; 36Vdc 3A

Permissible temperature

Low pressure: -30~65°C; High pressure: -35~120°C

Medium temperature: -50~120°C

Service life

100000 time

Dimensions



Type A

Insert type,Brass thread bolt



Type B

Insert type,Stainless steel thread bolt



Type C

Insert type,No thread bolt



Type D

Electric cable (Customized Length is able)
Copper thread bolt

Code for Custom Order Configurations

Ex:	MPS -	A	A+	BR	1NPT	A1
Switch type		63	A+	BR	1NPT	A1
A	-	Single Pole Single Throw (normal open)				
B	-	Single Pole Single Throw (normal close)				
C	-	Single Pole Double Throw				
Reset pattern			A+	BR	1NPT	A1
A+	-	Automatic reset				
B+	-	Manual reset				
Thread material						
BR	-	Brass		BR	1NPT	A1
SUS	-	Stainless steel				
Thread type						
1NPT	-	1/8NPT				
2NPT	-	1/4NPT				
1PT	-	1/8PT				
2PT	-	1/4PT				
1G	-	1/8PF				
2G	-	1/4PF				
2	-	1/4 Copper Tube				
7/16	-	7/16UNF external thread				
7/16	-	7/16UNF internal thread				
7/16	-	7/16UNF internal thread+valve core				
other	-	other				
Electrical connections						A1
A1	-	6.35x0.8				
B1	-	4.8x0.8				
C1	-	18AWG Electric cable				

Electric Contact Pressure Gauge: 3" Magnetic Snap-action

Mechanical
Pressure Gauge

Model: PRE3

Product Description

- Suitable for observation and automatic control
- Adjustable magnetic strength to avoid frequent, accidental collision of contacts due to vibration
- A variety of contact types to choose from



Product Specification

Connection location

Bottom mount, back mount, back mount with flange

Electrical connections

Cable outlet

Nominal size

3"

Scale ranges

0 ... 1 kg/cm² to 0 ... 1000 kg/cm² or other equivalent units of pressure, vacuum or compound.

Accuracy

±3.0% F.S.

Process connection

316L SS

1/4", 3/8", 1/2"; PT, G, NPT

Window

PC

Movement

Copper alloy

Bourdon tube

316 SS

Pressure limitation

Steady: full scale value

Fluctuating: 0.9 x full scale value

Product Specification

Ambient temperature

-20°C ... 70°C

Medium temperature

-20°C ... 150°C

Contact

Version:

Magnetic snap-action contact

Type:

Single contact N.O.

Single contact N.C.

Double contacts N.O. (3-wire/4-wire)

Double contacts N.O. + N.C. (3-wire/4-wire)

Double contacts N.C. (3-wire)

Electrical contact specification

Rated voltage: 250 V (Max.)

Contact capacity: 30 W ~ 50 VA (Max.)

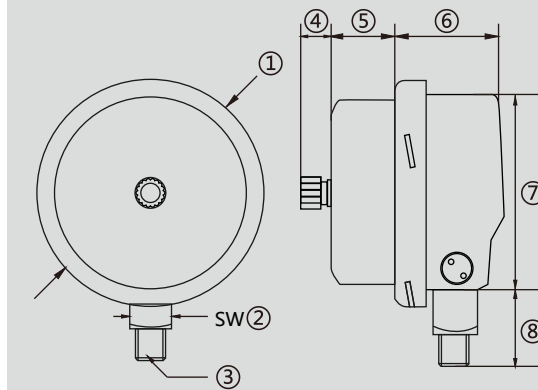
Starting current: 1.0 A (Max.)

Persistent current: 0.6 A (Max.)

Switching voltage: 24 V (Min.)

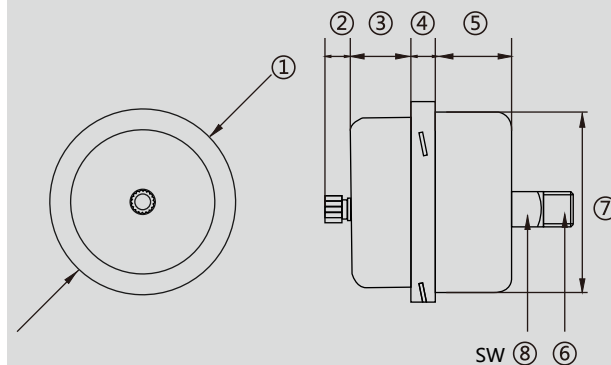
Dimensions

Bottom mount



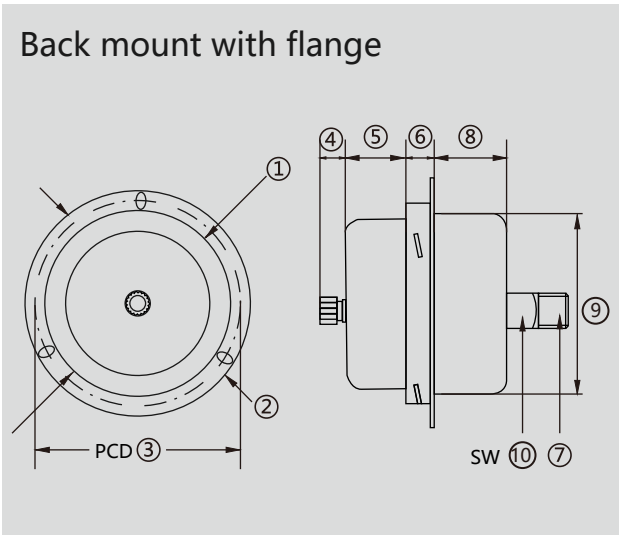
Dimensions (mm)								
NS	①	②	③	④	⑤	⑥	⑦	⑧
3"	84	17	3/8"	27	35	46.5	75	35

Back mount



Dimensions (mm)								
NS	①	②	③	④	⑤	⑥	⑦	⑧
3"	85	28	34	10	36	3/8"	75.5	17

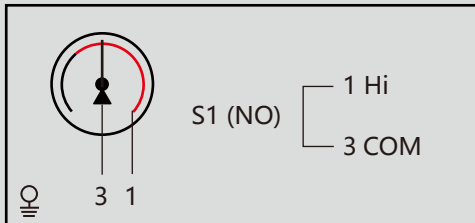
Dimensions



Dimensions (mm)										
NS	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩
3"	85	102	90	28	34	10.5	3/8"	36	75.5	17

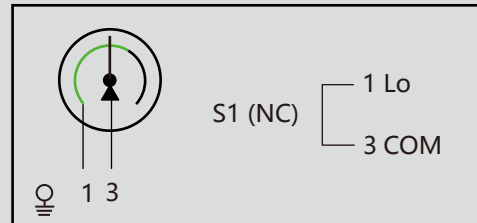
Contact Type

2R Single contact N.O.



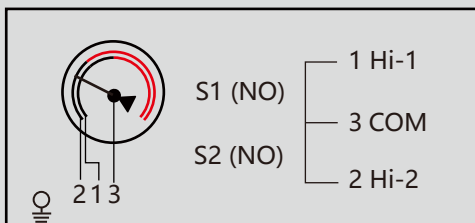
S1 contact makes when the pointer reaches the set point.

2G Single contact N.C.



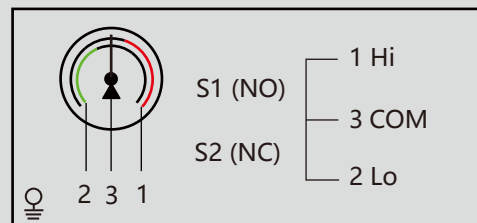
S1 contact breaks when the pointer reaches the set point.

3RR Double contacts N.O. (3-wire)



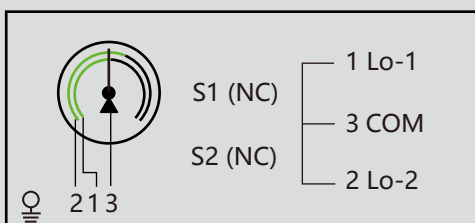
S1 and S2 contact make when the pointer reaches the set point.

3RG Double contacts N.O. + N.C. (3-wire)



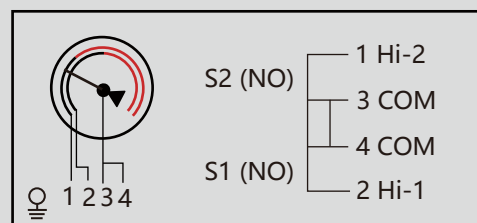
S1 contact makes and S2 contact breaks when the pointer reaches the set point.

3GG Double contacts N.C. (3-wire)



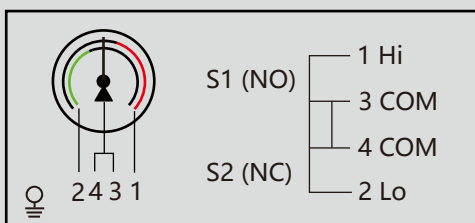
S1 and S2 contact break when the pointer reaches the set point.

4RR Double contacts N.O. (4-wire)



S1 and S2 contact make when the pointer reaches the set point.

4RG Double contacts N.O. + N.C. (4-wire)



S1 contact makes and S2 contact breaks when the pointer reaches the set point.

※ Note:

When the pressure is positive, the pointer is clockwise. If it is a vacuum (counterclockwise), the makes and the breaks are in opposite directions.

Switch Contact Pressure Gauge, Euro Warning/Alarm Contact

Mechanical
Pressure Gauge

Model: PRE4.H

Product Description

- Stainless steel bezel with glass window, beautiful but still durable
- A variety of contact types to choose from
- Used in chemical, petroleum, metallurgy, machinery and other industries
- Same specifications as WIKA-PGS23



Fig. Up: Lower mount
Fig. Down : Back mount

Product Specification

Connection location

Bottom mount,
back mount with flange,
back mount without flange

Electrical connections

Cable terminal box

Nominal size

4", 6"

Scale ranges

-76 cmHg ... 1000 kg/cm²,
or other equivalent units of pressure,
vacuum or compound

Accuracy

CL 1.6

Process connection

304 SS (standard), 316 SS
1/4", 3/8", 1/2"
PT, G, NPT

Case/Ring

304 SS (standard), 316 SS

Window

Flat instrument glass

Pointer

Aluminum alloy, black scale on white

Bourdon tube

316 SS



Product Specification

Filling liquid

Without, silicone oil

Movement

304 SS

Ambient temperature

20°C ... 70°C

Medium temperature

200°C (Max.) (unfilled)

100°C (Max.) (silicone oil filled)

Contact

Switch type:

Magnetic snap-action contact

Material:

Silver nickel alloy

Type:

Single contact N.O., Single contact N.C.,

Double contacts N.O.x2, Double

contacts N.O.+N.C., Double contacts

N.C.x2

Switch contact specifications

Rated operating voltage: 380 V (Max.)

Switching power Max.: 30 W / 50 VA
(Max.)

Switch-on current: 1.0 A (Max.)

Switch-off current: 1.0 A (Max.)

Continuous current: 0.6 A (Max.)

IP Rating

IP 65

Adjustment lock

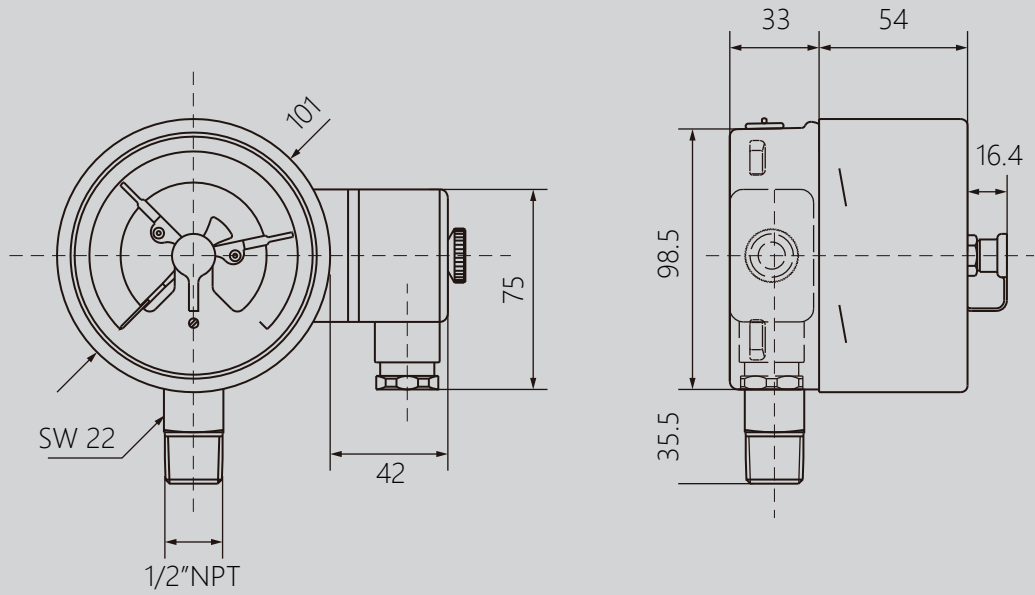
with/ without removable adjustment key

Others

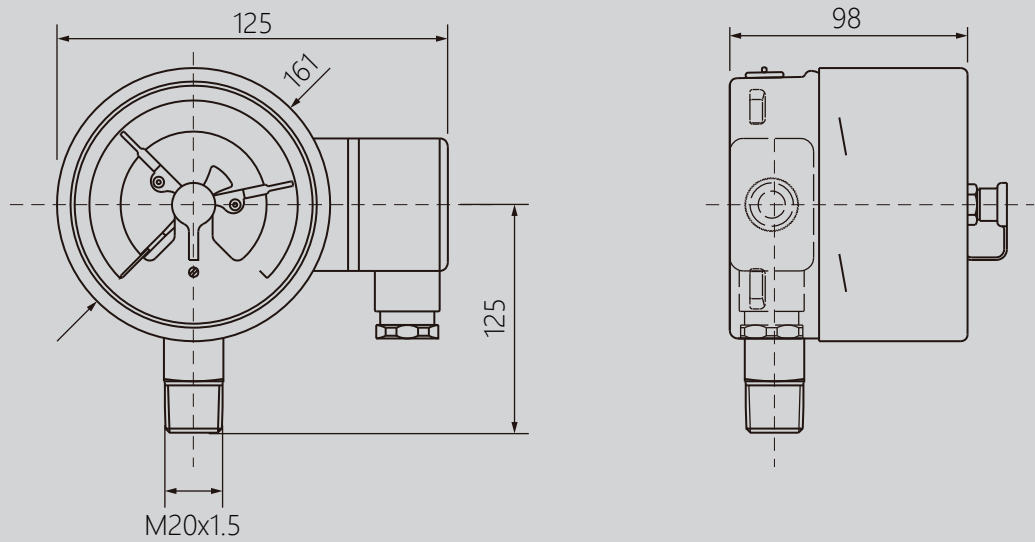
Contacts with separate circuits(2
separate circuits), SPDT Change-over
contacts (break or make simultaneously
at the set point)

Dimensions

A 4"-Bottom mount

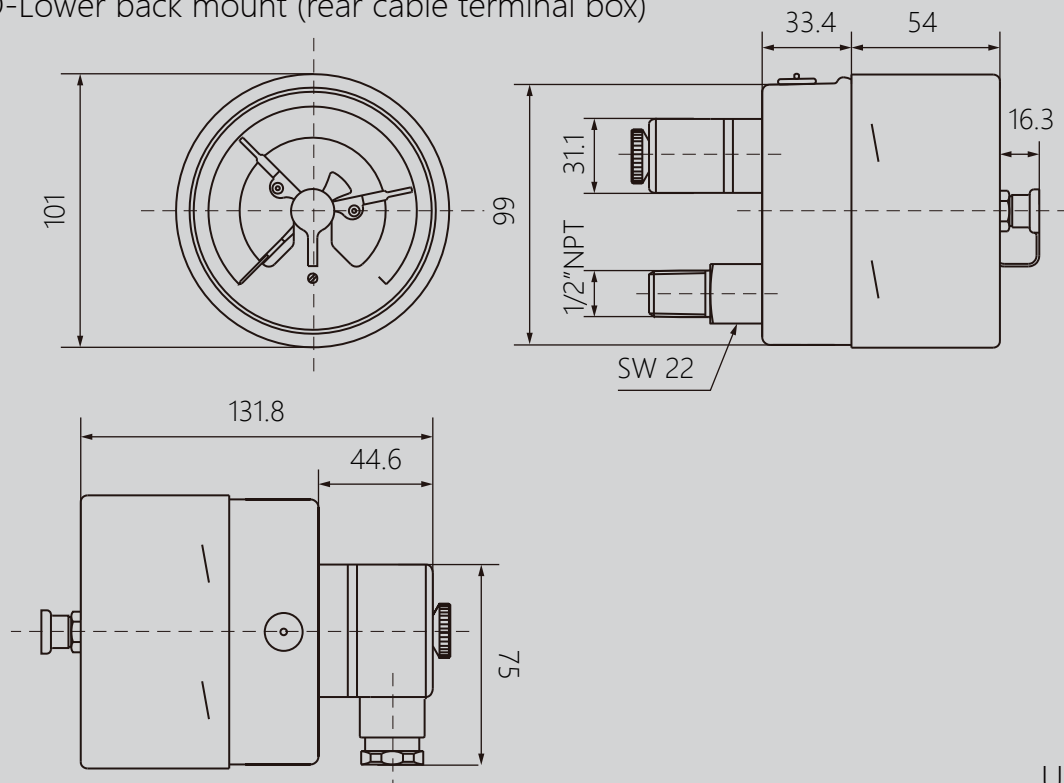


A 6"-Bottom mount



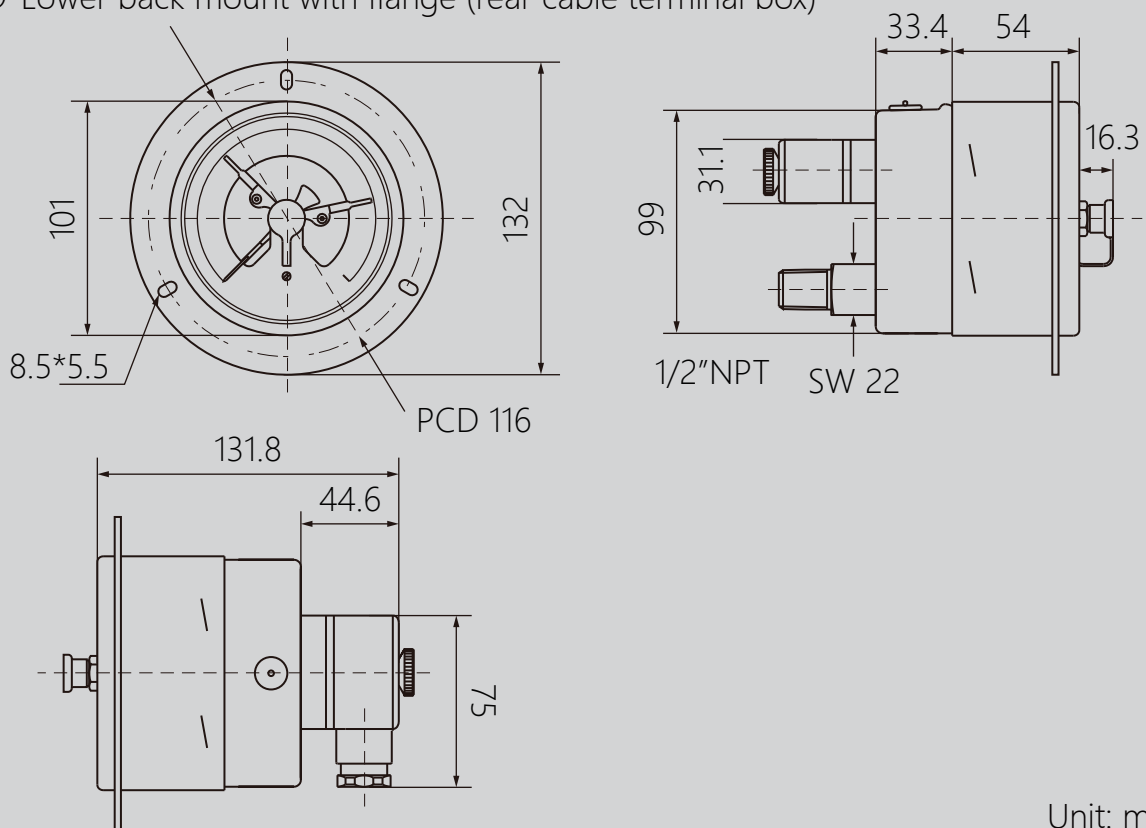
Dimensions

AD-Lower back mount (rear cable terminal box)



Unit: mm

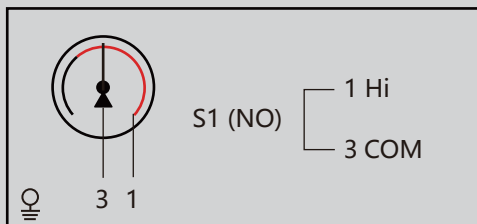
BD-Lower back mount with flange (rear cable terminal box)



Unit: mm

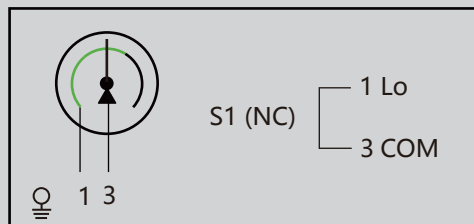
Contact type

2R Single contact N.O.



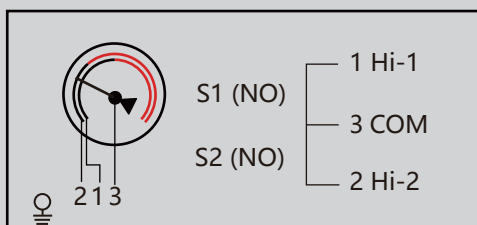
S1 contact makes when the pointer reaches the set point.

2G Single contact N.C.



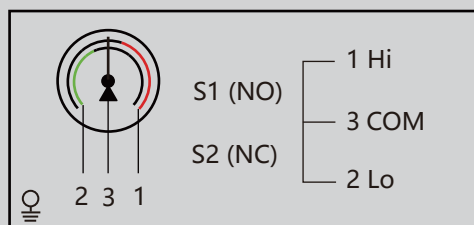
S1 contact breaks when the pointer reaches the set point.

3RR Double contacts N.O.



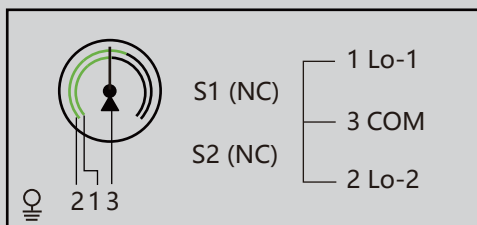
S1 and S2 contact make when the pointer reaches the set point.

3RG Double contacts N.O. + N.C.



S1 contact makes and S2 contact breaks when the pointer reaches the set point.

3GG Double contacts N.C.



S1 and S2 contact break when the pointer reaches the set point.

※ Note:

When the pressure is positive, the pointer is clockwise. If it is a vacuum (counterclockwise), the makes and the breaks are in opposite directions.



MEDIDORES DE PRESION

DIFERENCIAL
DE PRESION

Miniature differential pressure gauge

Model: PRMDS

Product Description

- Small size with simple construction
- Removable lens and rear-housing
- Used in air conditioners, medical respiratory equipment and filters



Product Specification

Nominal size

2.5"

Window

PC

Scale ranges

0 ... 12 mmH₂O to 0 ... 3500 mmH₂O
, or other equivalent units of pressure
or compound

Pressure limitation

30psi

Medium temperature

-6°C ... 49°C

Accuracy

5%

Accessories

U-clampset, pointer

Process connection

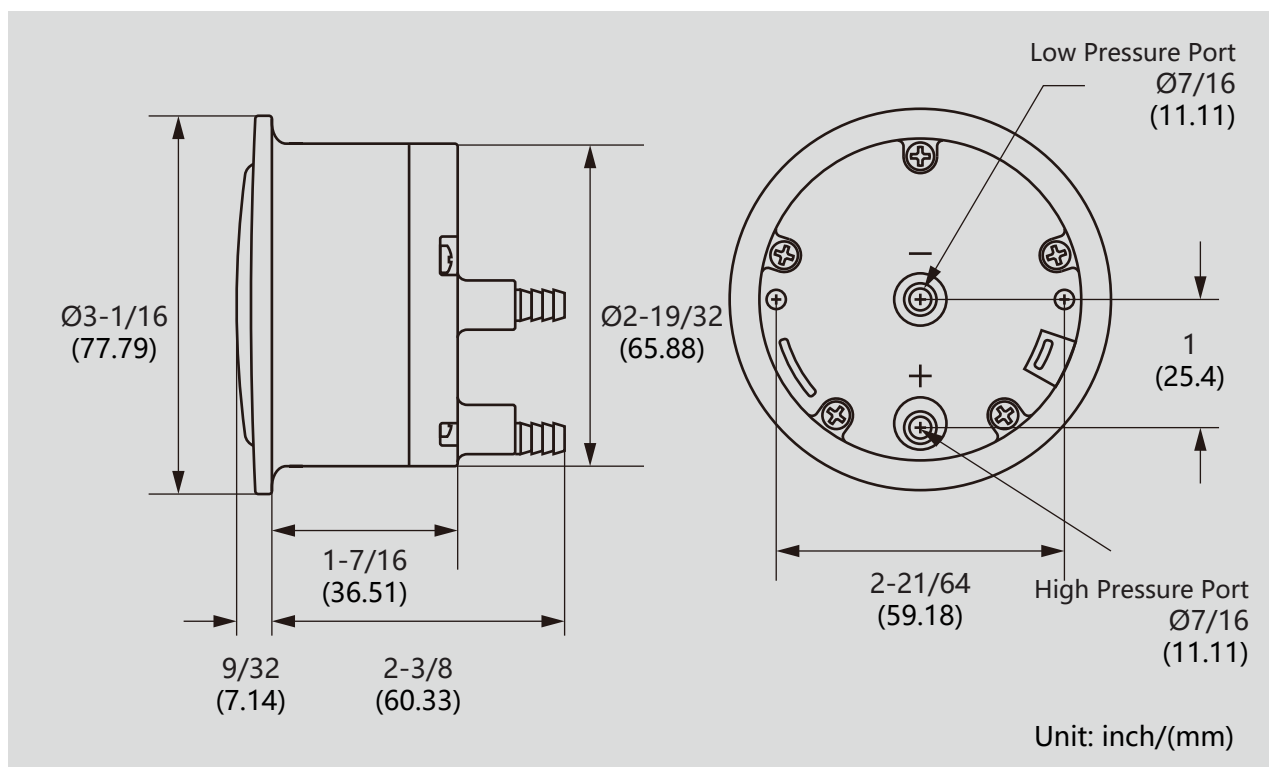
1/8"

NPT

Case

Glass filled nylon

Dimensions



Low Differential Pressure Switch

Model: PRSMD

Product Description

- Easy installation and no power supply needed
- Easily set the differential pressure switch values on site
- Limited to non-flammable and non-corrosive gases
- Usually used in filter, fan and duct pressure monitoring in building automation systems in the HVAC



Product Specification

Electrical connections

Screw terminal

Scale ranges

Scale range	Switch hysteresis (average)
20 ... 200 Pa	10 Pa
30 ... 300 Pa	10 Pa
40 ... 400 Pa	20 Pa
50 ... 500 Pa	20 Pa
100 ... 1000 Pa	50 Pa
200 ... 1000 Pa	100 Pa
500 ... 2500 Pa	150 Pa
1000 ... 5000 Pa	250 Pa

Accuracy

±2% F.S.

Process connection

6.0 mm pipe; P1 high pressure port,
P2 low pressure port

Material

Main body: PC; cover: PC; dia-
phragm: silicone; contact: silver

Accessories

Equipped with a set of standard
pressure connection components,
including 1.5 m transparent plastic
hose, 2 plastic connectors and 4
self-tapping screws.

Ambient temperature

-40°C ... 85°C

Product Specification

Medium temperature

-20°C ... 85°C

Contact type

SPDT

AC type max.: 1.5 A/250 VAC

DC type max.: 1 A/30 VDC

Maximum switching frequency

6 times/minute

Service life

Switch more than 10^6 times

Protection level

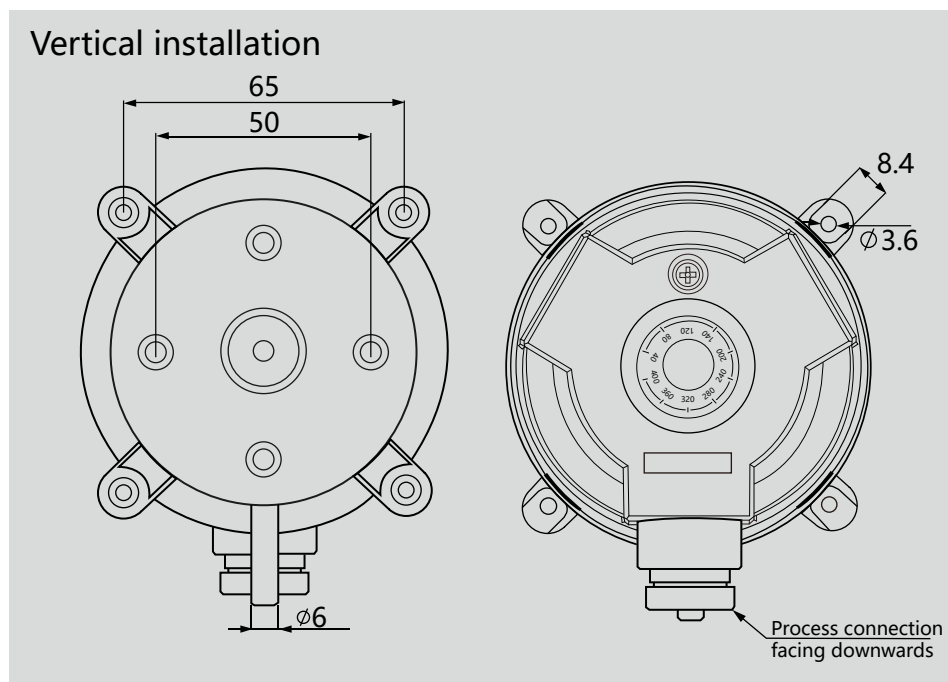
IP 54

Weight

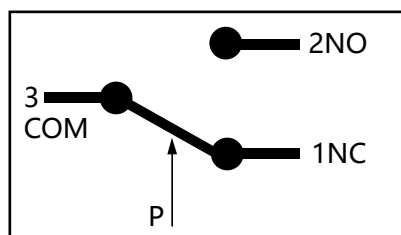
With mounting bracket: 140 g

Without mounting bracket: 90 g

Dimensions



※ Generally installed vertically on the wall. For horizontal installation, the set point needs to be 0.2 mbar above the scale point (cover up) or 0.1 mbar below the scale range (cover down).



Differential Pressure Transmitter: Analog Signal Output

Digital Pressure Gauge

Model: DRM108

Product Description

- Analog output 4-20mA for remote monitoring
- Limited to non-corrosive gases
- Usually used in filter, fan and duct pressure monitoring in building automation systems in the HVAC
- For RS-485 output signal please refer to TWM11



Product Specification

Electrical connctions

For cable Ø8 mm maximum

Accuracy

±1.0% F.S.

Scale ranges

Unidirectional	
0 ... 100 Pa	0 ... 200 Pa
0 ... 500 Pa	0 ... 1000 Pa
0 ... 2500 Pa	0 ... 5000 Pa
0 ... 10000 Pa	
Bidirectional	
0 ... ±50 Pa	0 ... ±100 Pa
0 ... ±250 Pa	0 ... ±500 Pa
0 ... ±1000 Pa	0 ... ±2500 Pa
0 ... ±5000 Pa	0 ... ±10000 Pa

Process connection

PH quick coupler Ø6.2 mm

Case/Ring

Industrial plastic,
fire resistance level per UL94-V0

Pressure limitation

X15

Medium temperature

-40°C ... 85°C



Product Specification

Voltage supply

2-wire: 10-30VDC/VAC

3-wire: 16-30VDC

Output signal

4-20mA (2-wire), 0-5VDC (3-wire),

0-10VDC (3-wire)

Electrical load

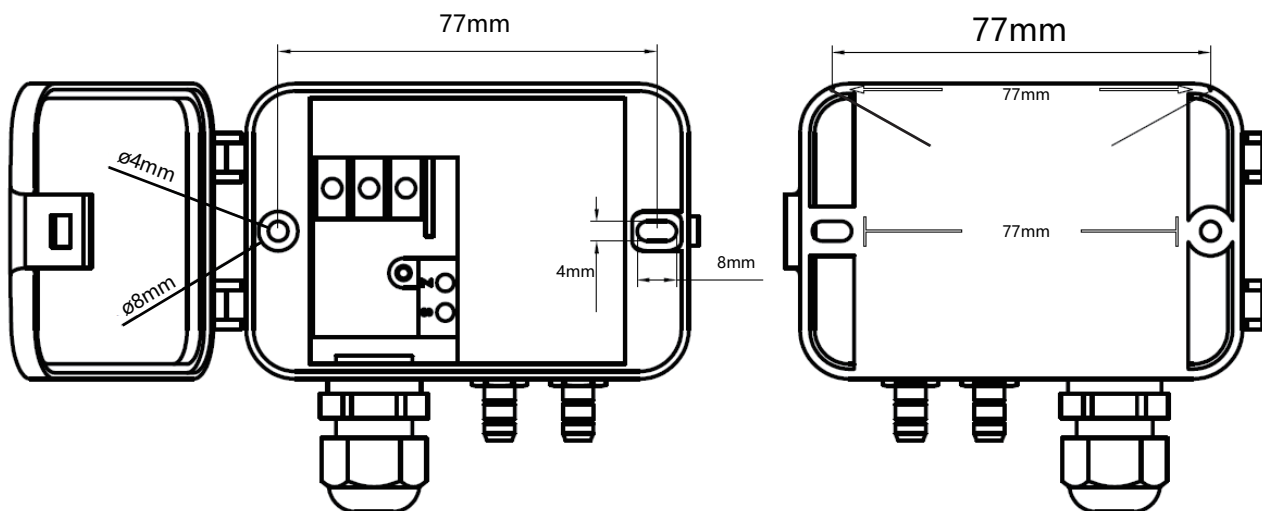
2-wire: $\leq 250\Omega$

3-wire: $\geq 50K\Omega$

Weight

140 g

Dimensions





Installation

Locate position for installation then drill holes (30 mm depth with 6mm diameter). Place expand plug inside the holes before install the transmitter. There are two holes for screwing after Uncovering the transmitter (expand plugs and screws for installation would be provided by the manufacturer).

Functions

1. Analog signal output

Both 0-5VDC & 0-10VDC and 4~20mA output are selectable. 3-wire for voltage output (follow the wiring diagram) while 2-wire for current output.

2. Zero button

Push the zero button to calibrate when the differential pressure between positive port and vacuum port reach to zero (the LED would light when the button be pushed).

3. Setting button

Calibration of pressure values with the use of precision instruments to provide the pressure source. (customers are not encouraged to use)

4. Response time setting

Set the response time by adjusting the dial-up switches:

Response time	0.5 s	1 s	2 s	4 s
Dial-up switch	1  2 	1  2 	1  2 	1  2 

Duplex Pressure Gauge

Model : PRDD

Product Description

- The pressure gauges are equipped with two independently working bourdon tube measuring systems
- LED lighting for operating voltages of DC24V or AC110V
- Typically used in filters and rail braking systems



Product Specification

Connection location

Lower back mount

Window

Glass

Nominal size

4"

Dial

Aluminum, white, black lettering

Scale ranges

0 ... 25bar, or other equivalent units of pressure, vacuum or compound

Pointer

Aluminum, black and red

Accuracy

±1.6% F.S.

Movement

Copper alloy

Process connection

M14 x 1.5

Bourdon tube

Copper alloy

Case/Ring

Carbon steel

Ambient temperature

-29°C ... 93°C

Product Specification

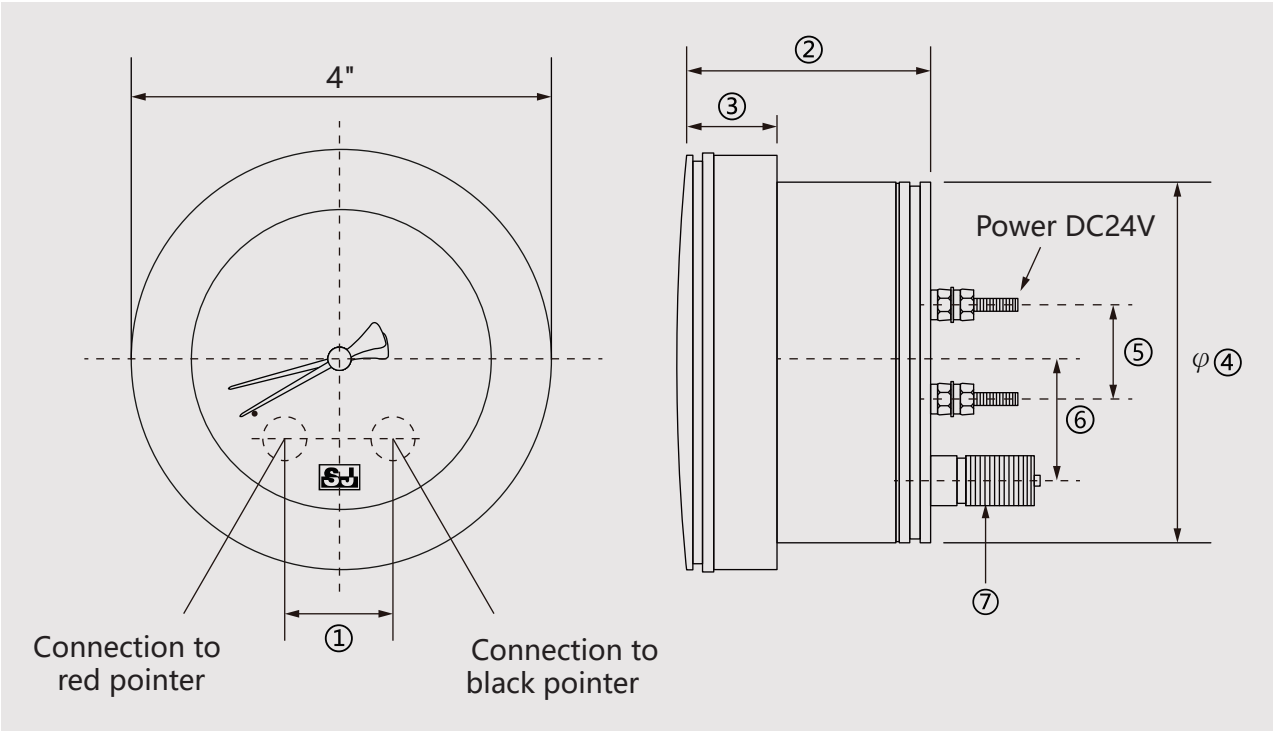
Medium temperature

-30°C ... 70°C

Lighting power supply

DC24V, AC110V

Dimensions



Dimensions (mm)							
NS	①	②	③	④	⑤	⑥	⑦
4"	34	65	28	100	25	29	M14x1.5

Differential Pressure Gauge, Double Diaphragm

Model: PRHD

Product Description

- High working pressure (static pressure) and high overload safety, selectable ranges up to 30 MPa
- The use of high-quality stainless steel materials and the robust design are geared to applications in the chemical and process engineering industries
- Suitable for liquid and gaseous media in aggressive environments
- Equivalent specifications that closely match the WIKA 732.14



Product Specification

Nominal size

4", 6"

Scale ranges

0 ... 10 kPa to 0 ... 600 kPa

Static pressure

Max. working pressure 10 ... 30 MPa
on either side
according to the scale range

Accuracy $\pm 2.5\%$ F.S (standard), $\pm 1.6\%$ F.S**Process connection**

M20 x 1.5, G 1/2, 1/2" NPT

Case/ ring

304 SS (standard), 316 SS

Window

Flat instrument glass

Dial

Aluminium, white, black lettering

Pointer

Aluminium, black

Movement

304 SS

Wetted part

304 SS (standard), 316 SS

Product Specification

Ambient temperature

-20°C ... +60 °C

Medium temperature

+180 °C Max.

IP rating

IP56 (standard), IP67

Zero adjustment

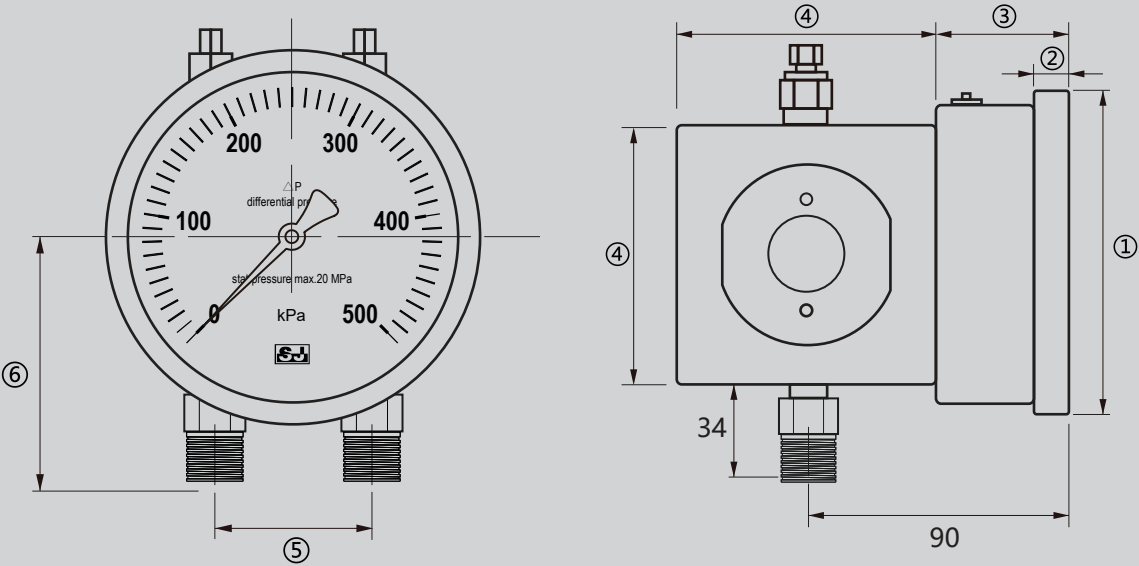
Insert a Hex Key (included in delivery) into the funnel guide, which is situated at the 4 o'clock point on the case circumference, is accessible by removing the sealing cap

Accessories (Options)

Mounting bracket for wall or pipe mounting, liquid filling, other process connections, valve manifolds, differential pressure gauge with switch contacts

Dimensions

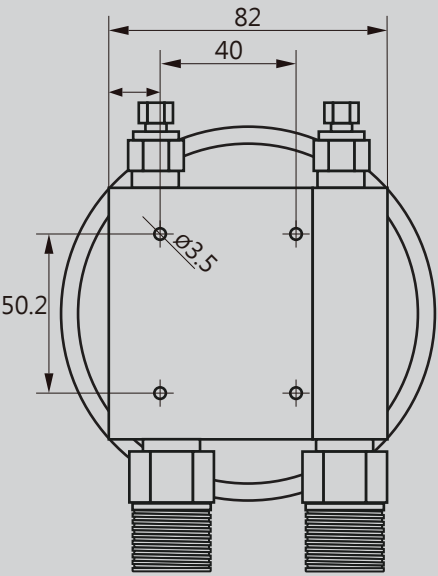
Front / Side



Dimensions (mm)

NS	①	②	③	④	⑤	⑥
100	110	13	50	74	54	70
150	149	18	52	74	54	70

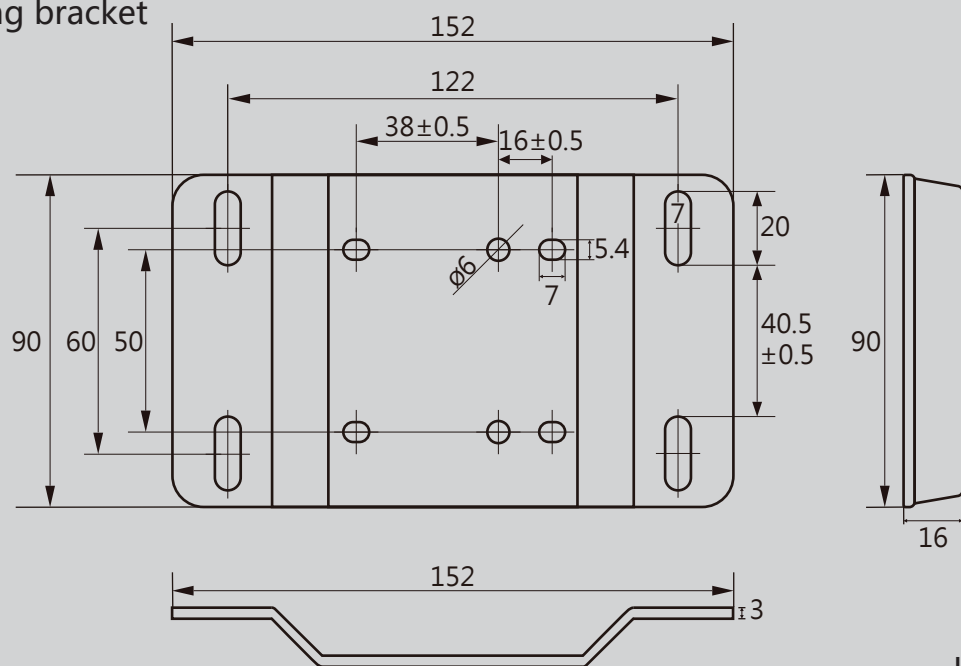
Back



Unit: mm

Dimensions

Mounting bracket



Unit: mm



Accessories

4"、6": Mounting bracket

Product Specification

Movement

304 SS

IP rating

IP 65

Medium temperature

-40°C ... +60°C with oxygen

-40°C ... +80°C

Ambient temperature

-40°C ... +60°C with oxygen

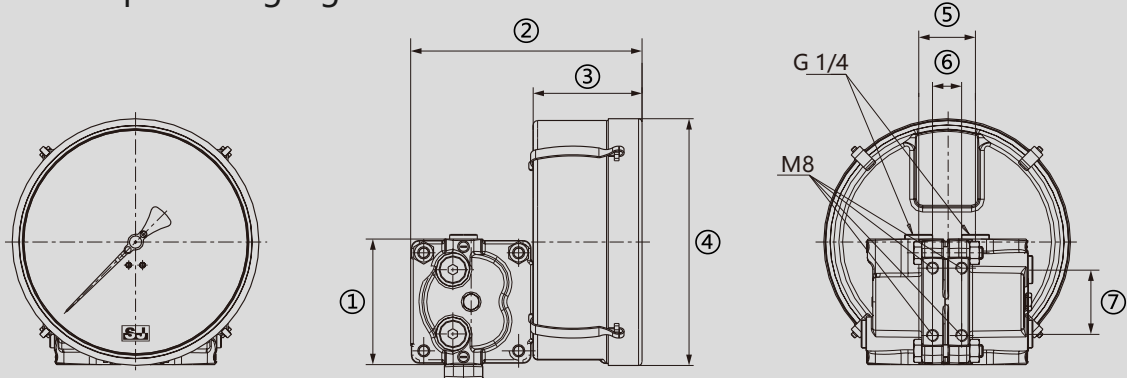
-40°C ... +80°C

Accessories (Options)

Valve manifold (wetted) with 4" or 6"
working pressure indication, switch
contacts, oxygen application,
adapter for process connection

Dimensions

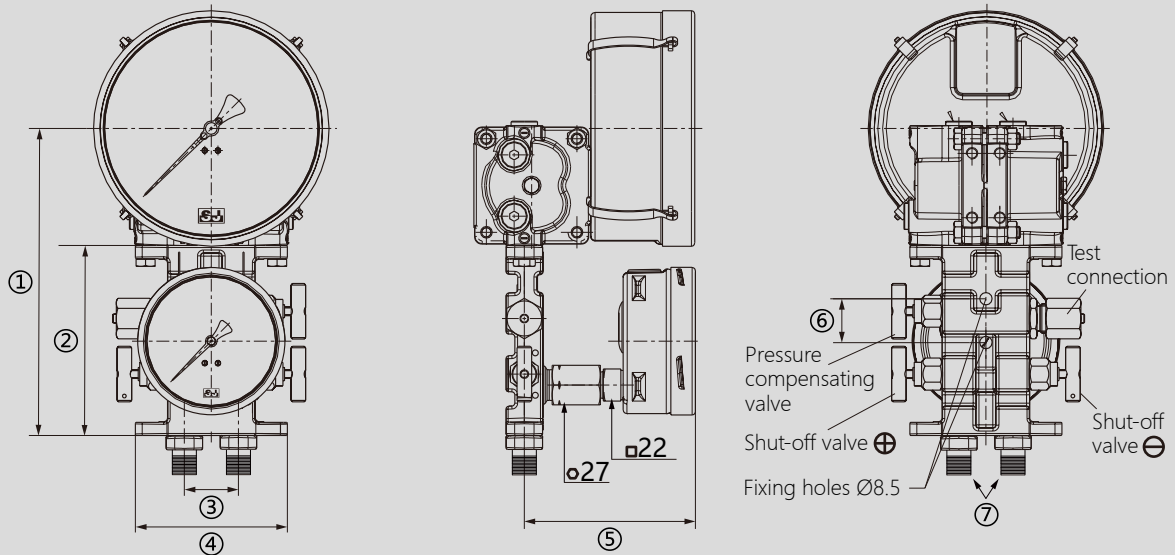
Differential pressure gauge model PRLD



Dimensions (mm)

NS	①	②	③	④	⑤	⑥	⑦
6"	82	71	197	161	37	19	42

Option valve manifold with working pressure indication



Dimensions (mm)

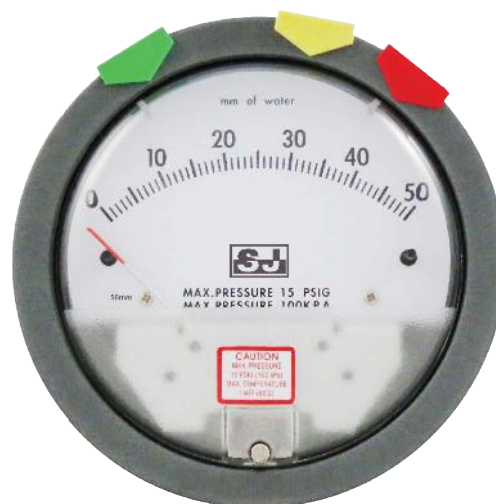
Option	①	②	③	④	⑤	⑥	⑦
	210	130	37	104	117	30	G 1/4

Low Differential Pressure Gauge

Model: PRMD

Product Description

- Measures the small pressure difference between two pressure sources
- Only suitable for measuring gases, can not measure liquid
- Used in hospitals, laboratories, factories, gas stations and storage tanks
- Same specifications as Series 2000 magnehelic®



Product Specification

Nominal size

4.5"

Window

Acrylic

Scale ranges

0 ... 3 mmH₂O to 0 ... 5000 mmH₂O,
or other equivalent units of pressure
or compound

Case/Ring

Die-cast aluminum

Accuracy

±2% F.S. to ±4% F.S., upon scale
range

Pressure limitation

-20 inHg ... 15 psi

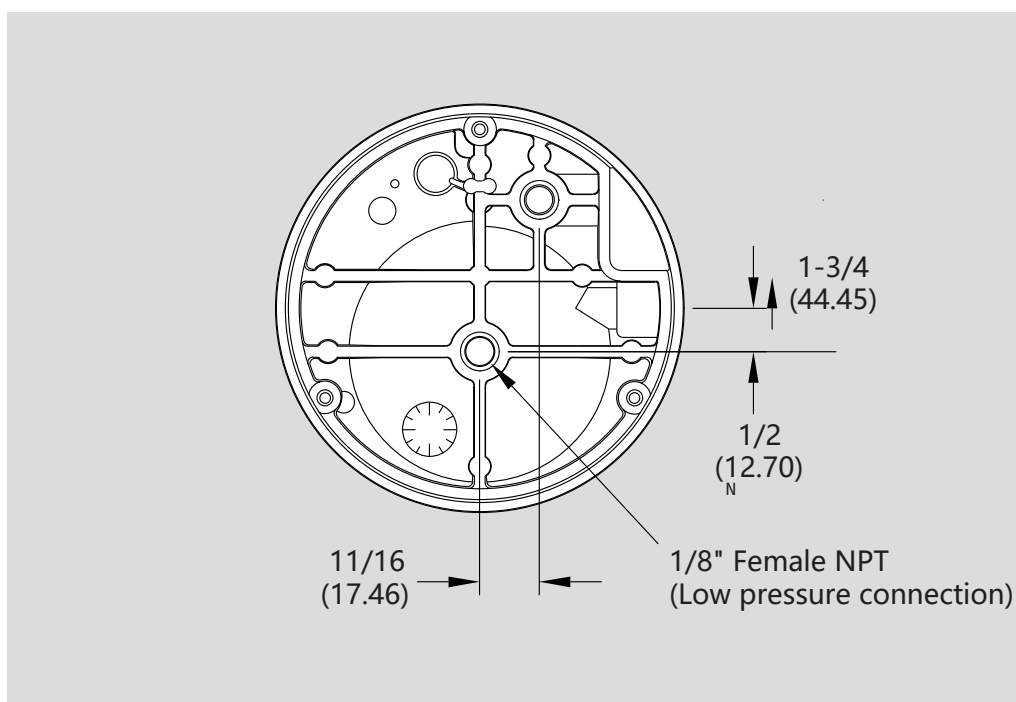
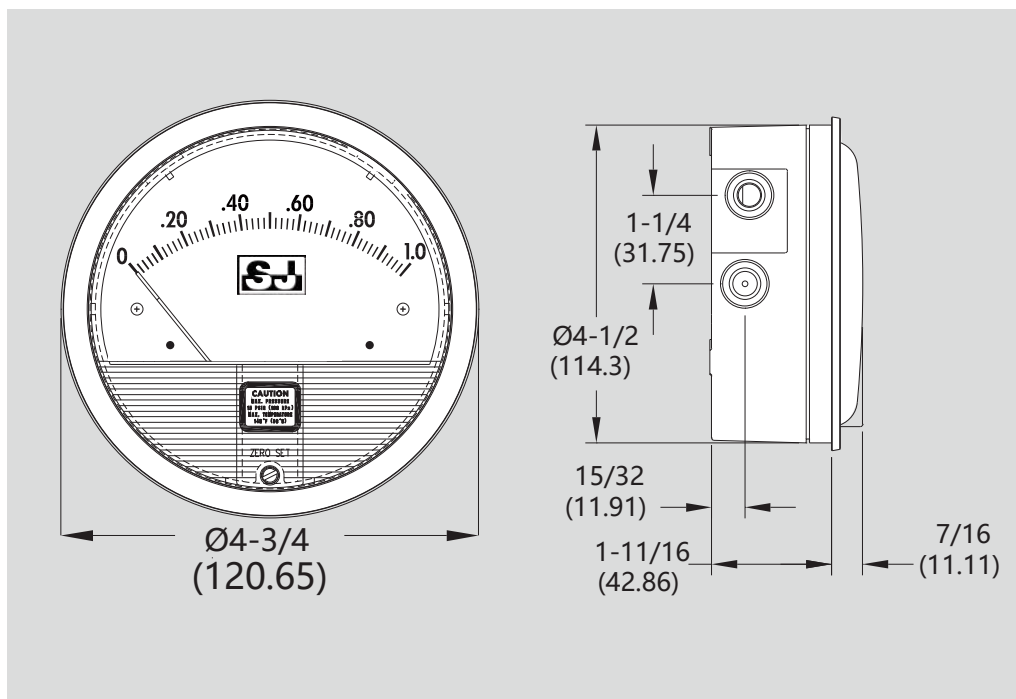
Medium temperature

-7°C ... 60°C

Process connection

1/8" female NPT

Dimensions



Accessories



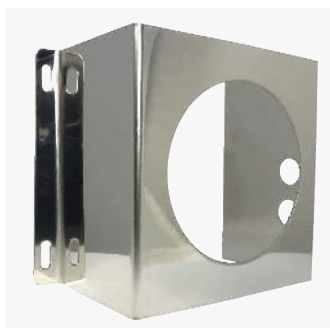
Accessory kits (standard)

Screws, connection fittings



Option

Pipe mounting plate



Option

Stainless steel flush mount bracket A



Option

Stainless steel flush mount bracket B



Measurement Operation

- Positive pressure:
Please plug one of the two high pressure holes, connect the other high-pressure hole with the pipeline to be measured, and do not plug the other two low-pressure holes to balance with the atmospheric pressure.
- Negative pressure:
Please plug one of the two low pressure holes, connect the other low-pressure hole to the pipeline to be measured, and the other two high-pressure holes are not plugged, and balance with the atmospheric pressure.
- Differential pressure:
Install the differential pressure gauge on the U-clamp. There are high and low pressure holes on the back and sides of the gauge. If you want to take over the measurement from the side, the two holes on the back need to be plugged with the screw plugs of the accessory kit. If you want to measure from the back, perform the reverse operation.

Accessory

- Standard accessories:
 1. Red, green and yellow adjustable warning pointer
 2. 1/8"NPT Hole plug x2
 3. Two connectors, one end is 1/8"NPT, the other end is PU hose
 4. Long and short thread x3
- Purchase accessories:
Round back plate, stainless steel U-clamp, stainless steel L mount bracket

Maintenance method

- No lubrication or regular maintenance is required. Keep the housing and upper cover clean. Occasionally untie the pressure line to vent both sides of the gage to the atmosphere and reset it to zero. The optional exhaust valve should be used for permanent installation. The PRMD series cannot be repaired on site and should be returned if repair is required (onsite repair should not be attempted, which may invalidate the warranty). Be sure to provide a brief description of the problem and any related application instructions. Please contact customer service before shipping.

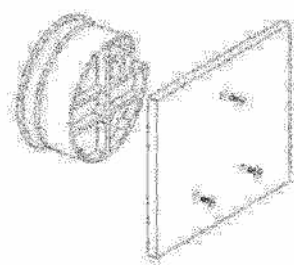
Other matters attention

- Choose a working environment where the temperature does not exceed 140° F (60° C). In addition, please be sure to avoid direct sunlight, otherwise it will accelerate the discoloration of the transparent plastic cover. The plastic hose can be lengthened according to the needs of use. Longer pipe lengths will not affect accuracy, but will slightly increase response time. If the pulsating pressure or vibration causes the pointer to vibrate too much, please consult the factory to provide additional damping.
- Overpressure protection:
The standard differential pressure gauge has a maximum rated pressure of 15 psig and should not be used beyond this limit. The model uses a rubber plug at the rear. When the pressure reaches about 25 psig, the red rubber plug at the rear will pop open.
- Zero adjustment:
After vertical installation, there is a ZERO SET on the differential pressure gauge, which can be adjusted to zero.

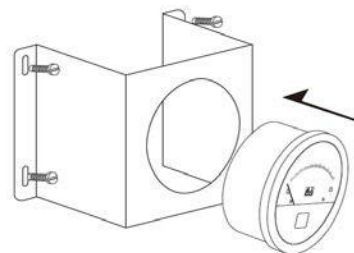


Installation Instructions

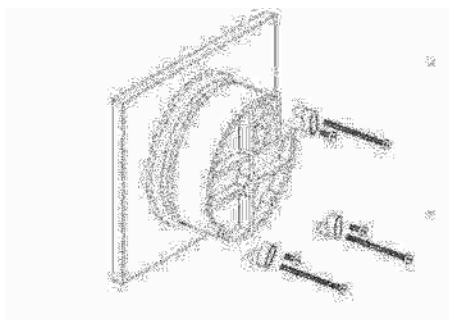
■ Flat mounting type



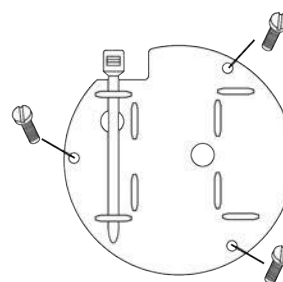
■ U-clamp



■ Embedded



■ Round back version installation type





MEDIDORES DE PRESION

BAJA
PRESION

Low Pressure Gauge

Model: PRM

Product Description

- For dry and non-aggressive pressure medium, such as gas
- Zero-point correction available
- Iron- or chromium-plated and stainless steel: PRSM, PRSSM.DC



Product Specification

Nominal size

2.5", 3", 4"

Scale ranges

0 ... 300 mmAq to 0 ... 5000 mmAq,
or other equivalent units of pres-
sure, vacuum or compound

Accuracy

ASME B40.1 grade B $\pm 3/2/3\%$

Process connection

Chromium-plated copper
1/4", 3/8", 1/2"; PT, G, NPT

Case/Ring

Iron,
2.5" Bottom mount: Black plating
2.5" Back mount: All chromium-plat-
ed case, black iron case and chromi-
um-plated bayonet ring
3", 4": All chromium-plated case

Window

2.5": acrylic; 3", 4": glass

Dial

Aluminum alloy, black scale on white

Pointer

Black aluminum alloy

Product Specification

Movement

Copper alloy

Capsule element

Copper alloy

Medium temperature

-20°C ... 60°C

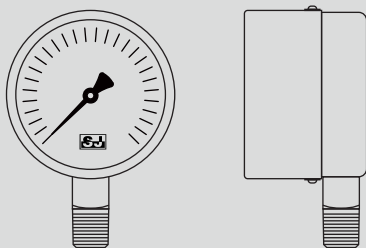
Pressure limitation

Steady: 0.75 x full scale value

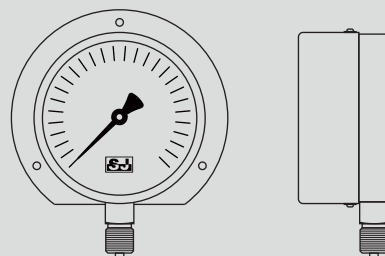
Fluctuating: 0.6 x full scale value

Connection Location

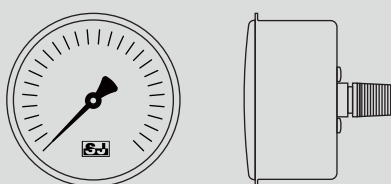
A-Bottom mount



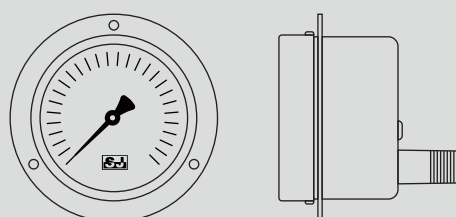
B-Bottom mount with flange



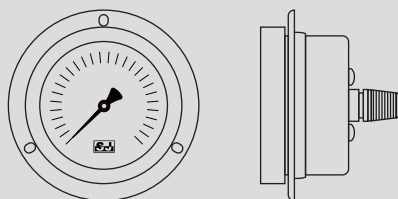
ADC-Center back mount



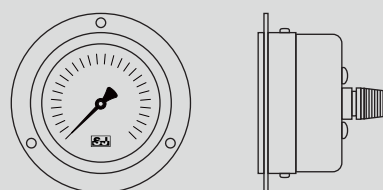
BDL-Lower back mount with flange



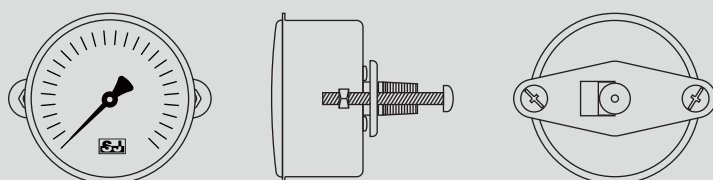
BDC-A Center back mount with flange
(all chromium plated case)



BDC-B Center back mount with flange
(black iron case and chromium plated
bayonet ring)



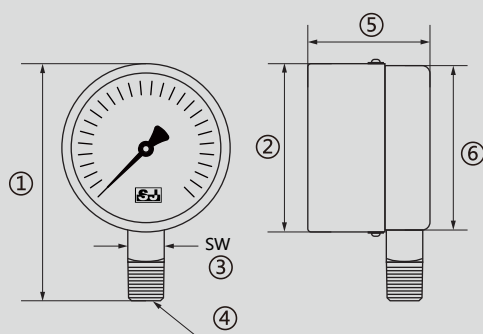
UDC-Center back mount with U-clamp



Connection location							
NS	A	B	ADC	BDL	BDC-A	BDC-B	UDC
2.5"	V	-	V	-	V	V	V
3"	V	-	-	V	V	-	-
4"	V	V	V	-	V	-	-

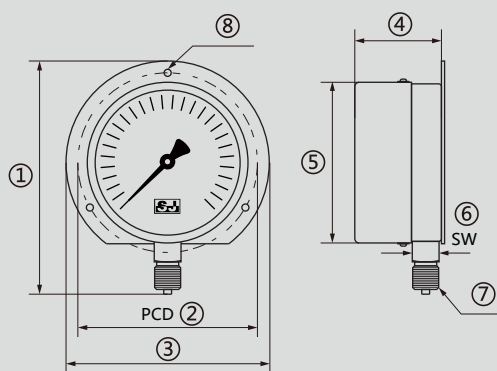
Dimensions

A-Bottom mount



Dimensions (mm)						
NS	①	②	③	④	⑤	⑥
2.5"	86.6	65.5	14	1/4"	47	65.3
3"	110	78.5	17	3/8"	56.7	76.7
4"	135	102	17	3/8"	54.5	100

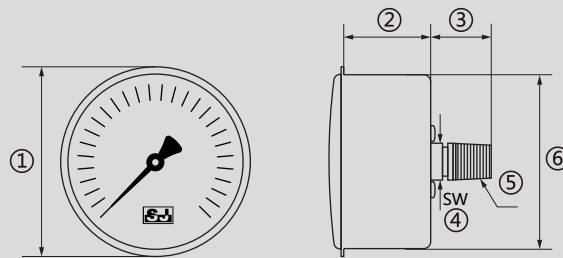
B-Bottom mount with flange



Dimensions (mm)								
NS	①	②	③	④	⑤	⑥	⑦	⑧
4"	147	114	129	55	102	17	3/8"	Φ4.5

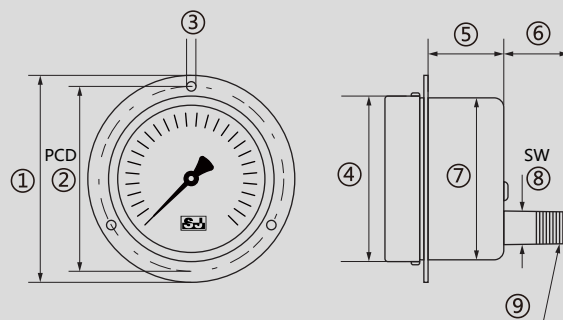
Dimensions

ADC-Center back mount with flange



Dimensions (mm)						
NS	①	②	③	④	⑤	⑥
2.5"	72	33.5	22.5	14	1/4"	63
4"	111	31	29	22	1/2"	99.5

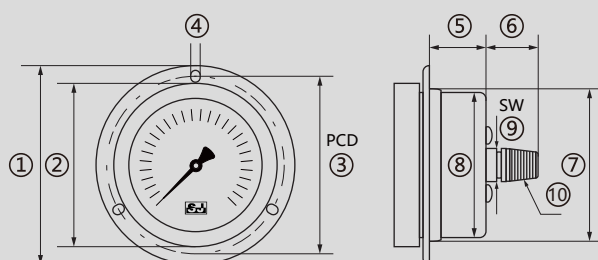
BDL-Lower back mount with flange



Dimensions (mm)									
NS	①	②	③	④	⑤	⑥	⑦	⑧	⑨
3"	98.4	87.9	Φ4.5	78.7	36	31	77	16	1/4"

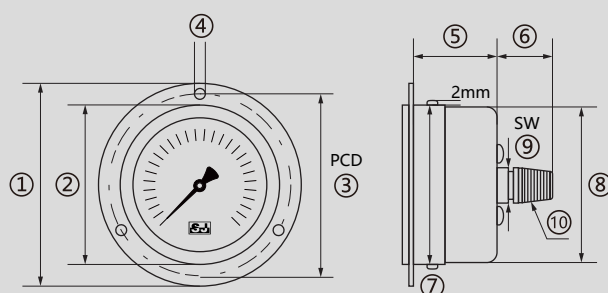
Dimensions

BDC-A Center back mount with flange
(all chromium plated case)



Dimensions (mm)										
NS	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩
2.5"	84	69	75	4*5	23.9	22	64.4	61.3	14	1/4"
3"	104.3	84.6	91.8	4.4*6.5	29	27.5	78	76	17	3/8"
4"	131.5	111	118	6*7.5	27	24	103	99.5	17	3/8"

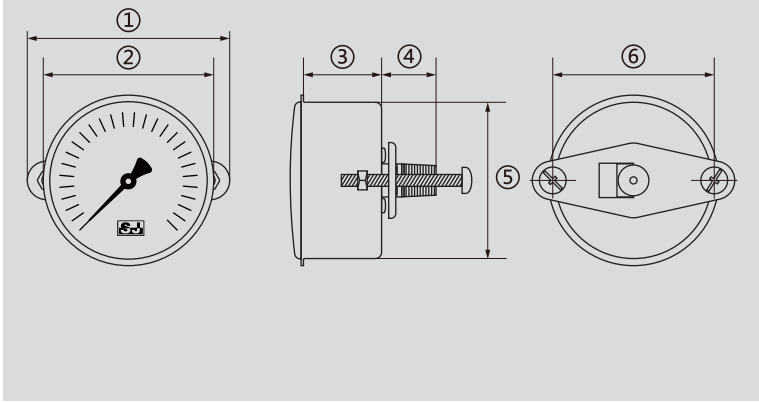
BDC-B Center back mount with flange
(black iron case and chromium plated bayonet ring)



Dimensions (mm)										
NS	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩
2.5"	80.3	63.1	72	4.3	33.1	22	63.1	61.6	14	1/4"

Dimensions

UDC-Center back mount with U-clamp



Dimensions (mm)						
NS	①	②	③	④	⑤	⑥
2.5"	85.5	72	33.5	22.5	63	62

Low Pressure Gauge - Stainless Steel Case

Model: PRSM

Product Description

- For gaseous or liquid pressure medium that are compatible with copper alloy parts
- Zero-point correction available for troubleshooting
- Stainless steel case — other different materials available: PRM, PRSSM.DC



Product Specification

Nominal size

2.5", 3", 4"

Scale ranges0 ... 300 mmAq to 0 ... 5000 mmAq,
or other equivalent units of pressure,
vacuum or compound**Accuracy**ASME B40.1 grade B $\pm 3/2/3\%$ **Process connection**Chromium-plated copper
1/4", 3/8", 1/2"; PT, G, NPT**Case/Ring**

304 SS

Window

2.5": acrylic; 3", 4": glass

Dial

Aluminum alloy, black scale on white

Pointer

Black aluminum alloy

Movement

Copper alloy

Capsule element

Copper alloy

Medium temperature

-20°C ... 60°C

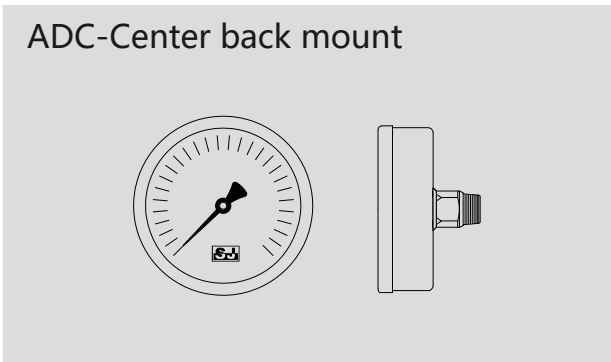
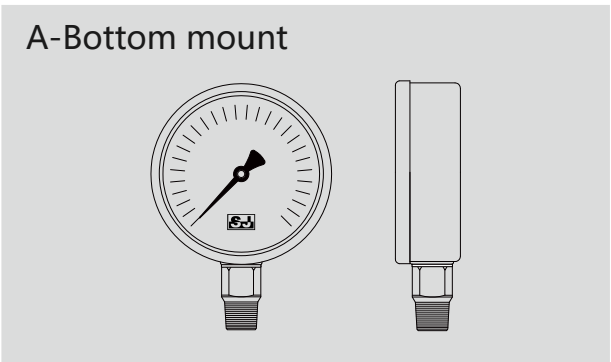
Product Specification

Permissible pressure

Steady: 0.75 x full scale value

Fluctuating: 0.6 x full scale value

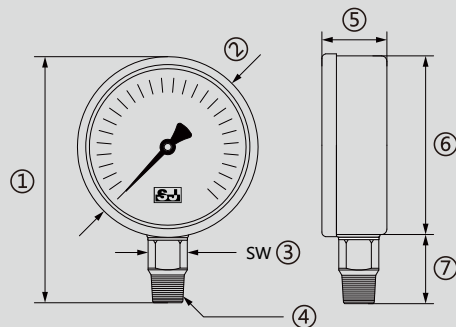
Connection Location



Connection location		
NS	A	ADC
2.5"	V	V
3"	V	-
4"	V	-

Dimensions

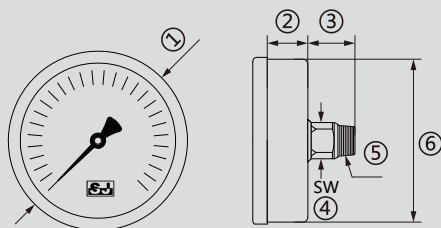
A-Bottom mount



Dimensions (mm)

NS	①	②	③	④	⑤	⑥	⑦
2.5"	90	66	14	1/4"	45	66	21
3"	110	79	17	1/4"	55	79	32
4"	137	111	22	1/2"	43	132	33

ADC-Center back mount



Dimensions (mm)

NS	①	②	③	④	⑤	⑥
2.5"	72	33	13	14	1/2"	65

Low Pressure Gauge, Stainless Steel

Model: PRSSM.TU

Product Description

- Can only be used to measure the pressure of non-liquid media
- For gaseous, dry and aggressive media, as well as adverse environments
- The liquid-filled case design is suitable for highly dynamic pressure loads and vibrations



Product Specification

Connection location

Bottom mount, back mount,
without/with flange, back mount
with U-clamp

Nominal size

2.5", 4", 6"

Scale ranges

2.5":

unfilled: 0 ... 2.5 kPa to 0 ... 100 kPa

4":

unfilled: 0 ... 1 kPa to 0 ... 100 kPa

filled: 0 ... 4 kPa to 0 ... 100 kPa

6":

unfilled: 0 ... 0.5 kPa to 0 ... 100 kPa

filled: 0 ... 2.5 kPa to 0 ... 100 kPa

Accuracy

±2.5% F.S. (standard), ±1.6% F.S.,
±1.0% F.S.

Process connection

1/4", 3/8", 1/2"

PT, G, NPT

Case/Ring

304 SS (standard), 316 SS

Window

Flat instrument glass, laminated
safety glass

Dial

Product Specification

Aluminum, white, black lettering

Pointer

Aluminum, black

Movement

304 SS

Case filling

Without, silicone oil

Wetted part

316L SS

Pressure limitation

Steady: Full scale value

Fluctuating: 0.9 x full scale value

Ambient temperature

-20°C ... 60°C

Medium temperature

≤100°C

IP rating

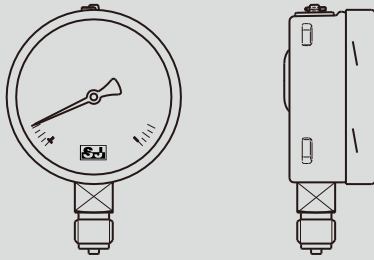
IP 65

Zero point setting

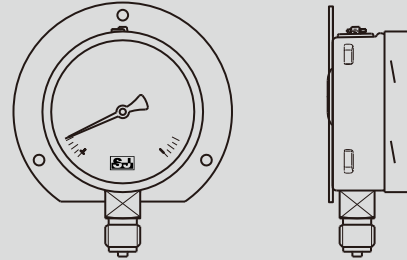
In front, after opening the bayonet ring

Connection Location

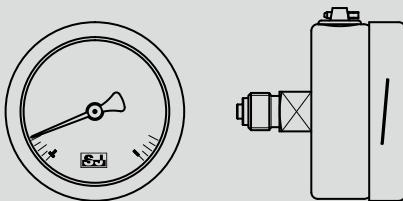
A-Bottom mount



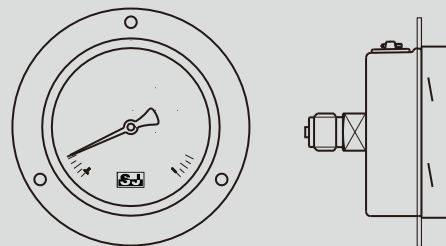
B-Bottom mount with flange



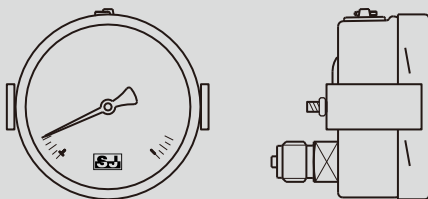
ADC-Center back mount



BDC-Center back mount with flange



UAD-Back mount with U-clamp



Connection location					
NS	A	B	ADC	BDC	UAD
2.5"	V	-	V	V	-
4"	V	V	V	V	V
6"	V	V	V	V	-

Diaphragm Low Pressure Gauge

Model: PRSSM-LD

Product Description

- Corrugated diaphragm design used for measuring small pressure ranges within corrosive, crystalized or viscous pressure media
- Pressure connections include threaded and flange mounting options, or electric contacts
- Suitable for applications in the chemical, petrochemical, oil and gas industries as well as power engineering



Fig. left: Male thread with contacts
Fig. middle: Flange type
Fig. right: Male thread

Product Specification

Connection location

Male thread, male thread with contacts, flange type, flange type with contact

Nominal size

4", 6"

Scale ranges

0 ... 1 kPa to 0 ... 60 kPa or other equivalent units of pressure, vacuum or compound

Accuracy

±2.5% F.S. (standard), ±1.6% F.S.

Ambient temperature

-20°C ... 60°C

Medium temperature

Maximum +100°C

Case/Ring

Stainless steel

Window

Glass, safety glass

Dial

Aluminum alloy, black scale on white

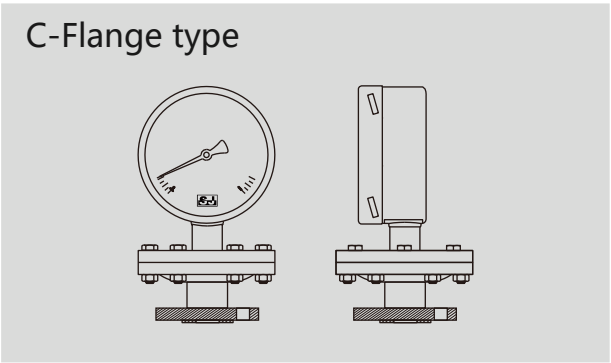
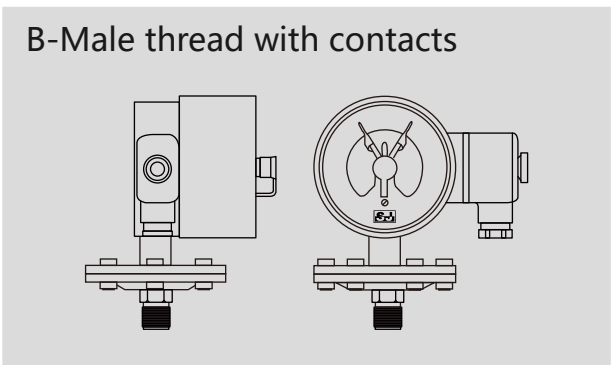
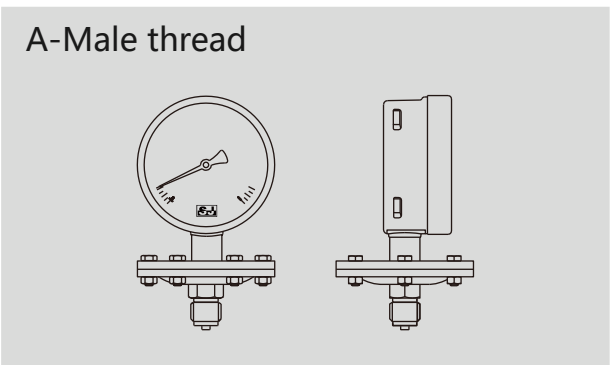
Pointer

Black aluminum alloy

Sensor element

316L SS (standard), hastelloy alloy, PTFE

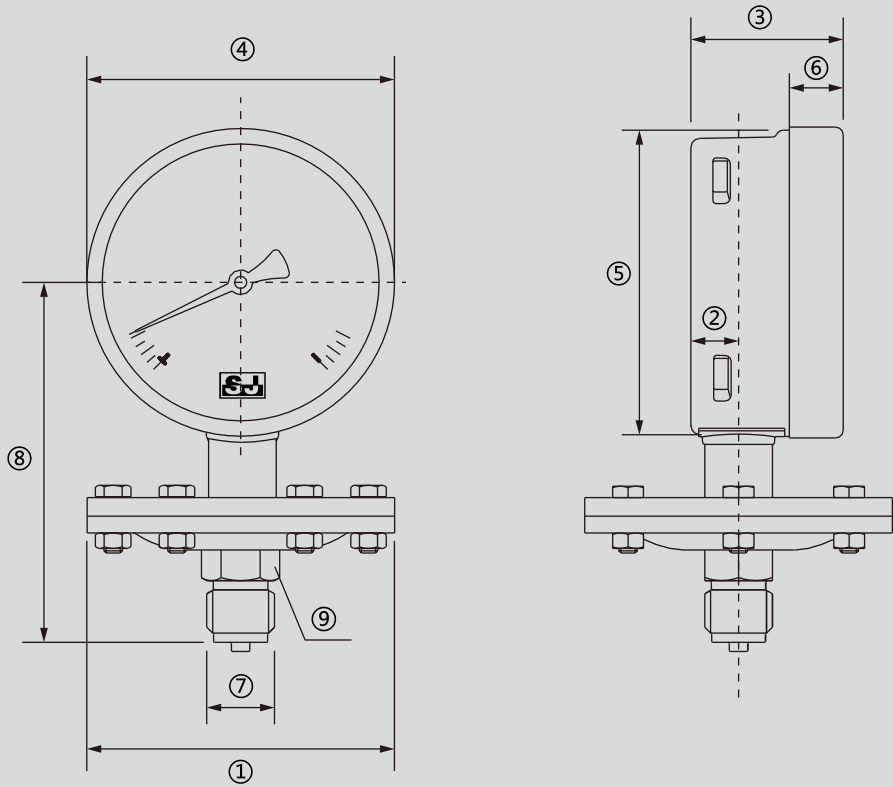
Connection location



Connection location			
NS	A	B	C
4"	V	V	V

Dimensions

A-Male thread

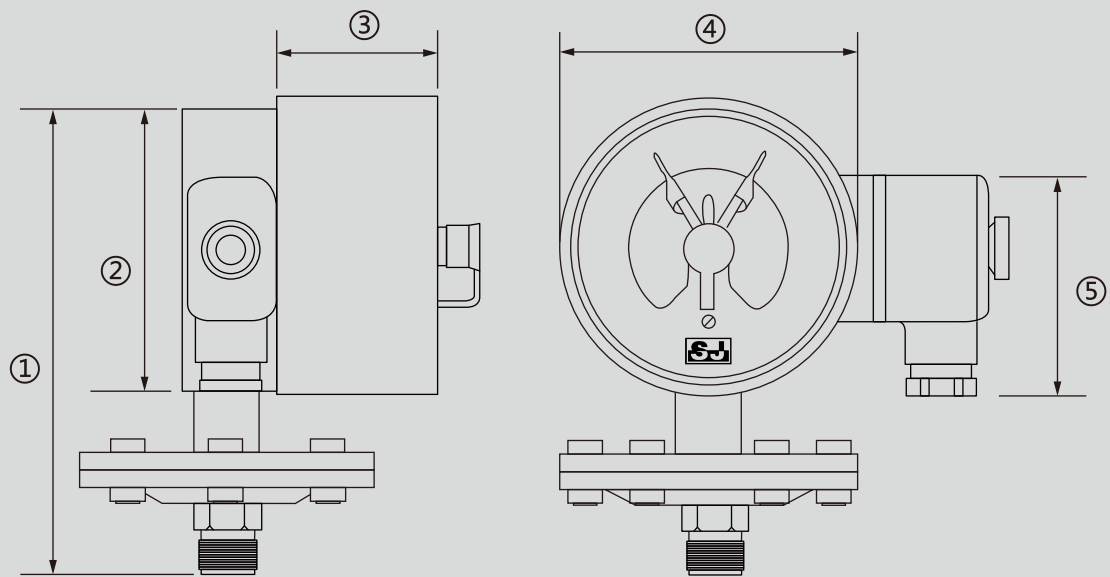


Dimensions (mm)

NS	Scale range	①	②	③	④	⑤	⑥	⑦	⑧	⑨
4"	≤ 0.25 bar	160	15.5	49.5	101	99	17.5	1/2"	119	22
	> 0.25 bar	100	15.5	49.5	101	99	17.5	1/2"	117	22

Dimensions

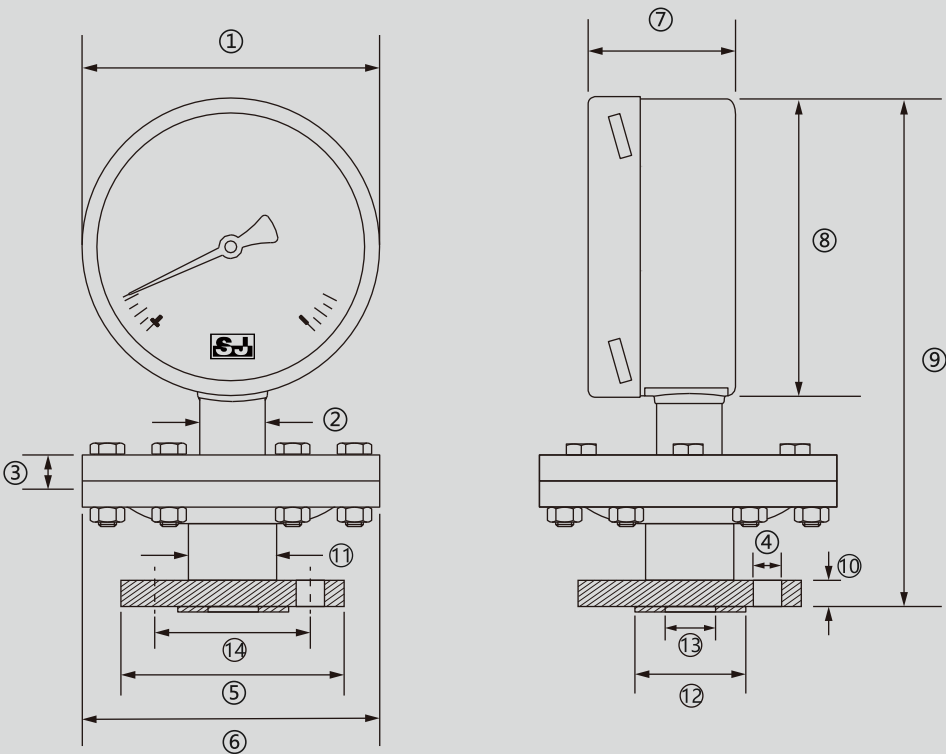
B-Male thread with contacts



Dimensions (mm)					
NS	①	②	③	④	⑤
4"	250	150.2	87.7	101.5	75.3

Dimensions

C-Flange type



Dimensions (mm)							
NS	①	②	③	④	⑤	⑥	⑦
4"	101	22.5	20.3	16	110	161.5	50
NS	⑧	⑨	⑩	⑪	⑫	⑬	⑭
4"	99	216	14.2	36.3	51	26	78



MEDIDORES DE PRESION

DE ACERO
INOXIDABLE

Stainless Steel Pressure Gauge, High Temperature / Boiler

Mechanical
Pressure Gauge

Model : PRST

Product Description

- Use 304 SS wetted parts for high-temperature applications
- Design for plants and equipment where measured values must be read from a distance
- Referred to as "Boiler Gauge " or "Steam Gauge" in the industry



Product Specification

Nominal size

8", 10"

Scale ranges

0 ... 1 bar to 0 ... 1000 bar, or other equivalent units of pressure or compound

Accuracy

±1.6%F.S.

Process Connection

1/4", 3/8", 1/2"; PT, G, NPT

Case / Ring

Iron; with black anti-corrosion coating

Window

Flat instrument glass

Dial

Aluminum alloy (single or double scale)

Pointer

Black aluminum alloy

Bourdon Tube

304 SS

Movement

304 SS

Medium temperature

Max. 200°C

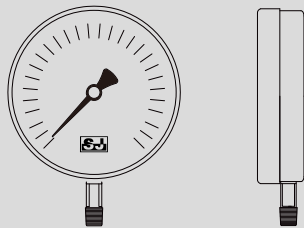
Accessories (Options)

Stainless steel rear flange

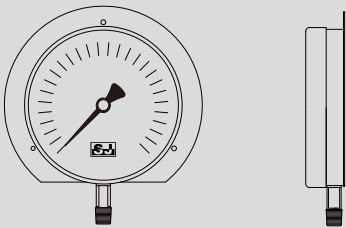


Dimensions

A Bottom mount



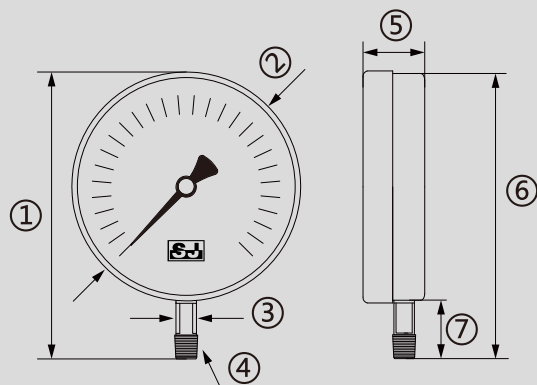
B Bottom mount with rear flange



NS	Code	A Bottom mount	B Bottom mount with rear flange
	8"	✓	✓
	10"	✓	—

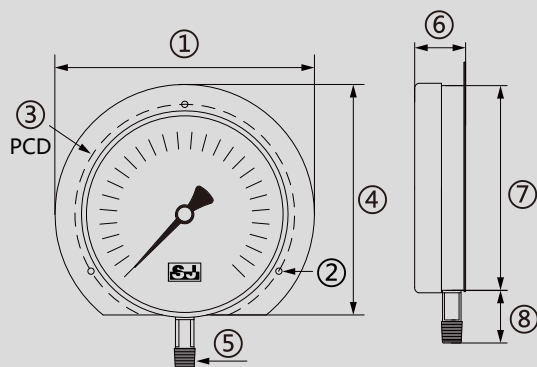
Dimensions

A Bottom mount



Dimension (mm)							
NS	①	②	③	④	⑤	⑥	⑦
8"	238	199	S19	1/2"PT	47	238	41
10"	295	250	17	1/2"PT	48	295	48

B Bottom mount with rear flange



Dimension (mm)								
NS	①	②	③	④	⑤	⑥	⑦	⑧
8"	253	4.7	217	216	1/2"PT	G1/2B	197	41

All stainless steel pressure gauge

Model: PRSS

Product Description

- For gaseous and liquid pressure media that are not highly viscous or crystallizing
- Liquid filled type available to avoid hard observation from pointer vibration
- Ideal for food and beverage, or other process engineering industries



Product Specification

Nominal size

2.5", 3", 4"

Scale ranges

0 ... 1 kg/cm² to 0 ... 1000 kg/cm², or
other equivalent units of pressure,
vacuum or compound

Accuracy

±1.6% F.S.

Process connection

316L SS

1/8", 1/4", 3/8", 1/2"

PT, G, NPT

Case/Ring

304 SS

Window

Polycarbonate (standard),
glass

Dial

Aluminum alloy, black scale on white

Pointer

Black aluminum alloy

Movement

Copper alloy

Bourdon tube

316L SS

Product Specification

Filling liquid

Without, glycerine, silicone oil

Accessories

2.5", 4": adjustable set pointer (options)

Pressure limitation

Steady: full scale value

Fluctuating: 0.9 x full scale value

Ambient temperature

-40°C ... 60°C (unfilled or silicone oil filled)

-20°C ... 60°C (glycerine filled)

Medium temperature

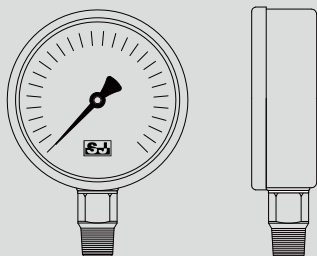
-40°C ... 150°C (unfilled)

-20°C ... 100°C (glycerine filled)

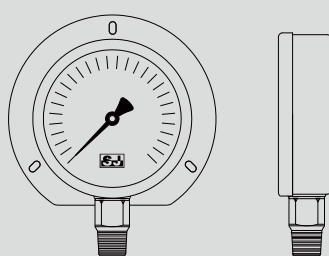
-40°C ... 100°C (silicone oil filled)

Connection Location

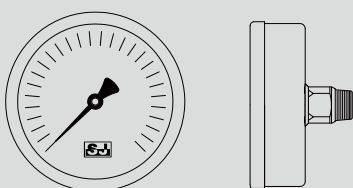
A-Bottom mount



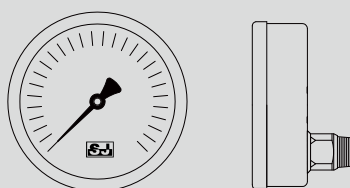
B-Bottom mount with flange



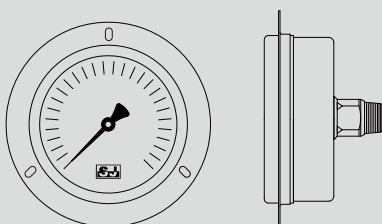
ADC-Center back mount



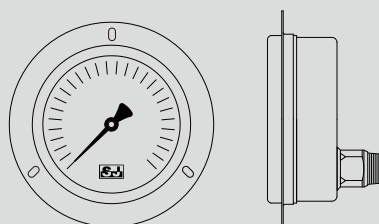
ADL-Lower back mount



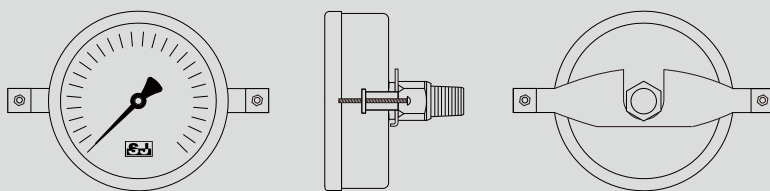
BDC-Center back mount with flange



BDL-Lower back mount with flange



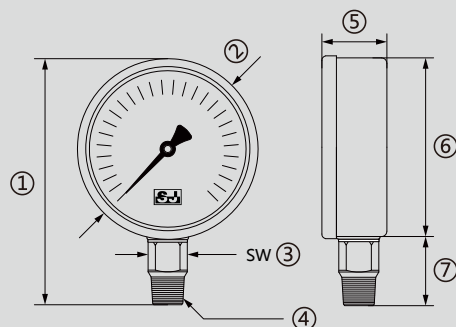
UDC-Center back mount with U-clamp



Connection location							
NS	A	B	ADC	ADL	BDC	BDL	UDC
2.5"	V	V	V	-	V	-	V
3"	V	V	V	-	V	-	V
4"	V	V	V	V	V	V	V

Dimensions

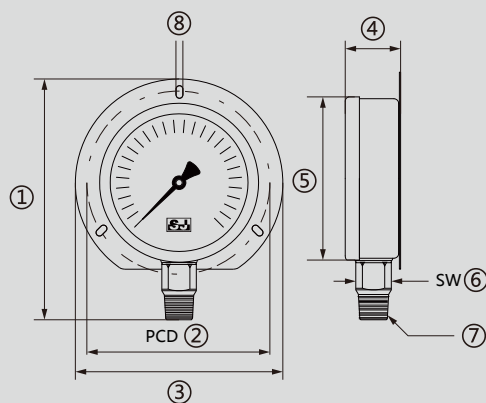
A-Bottom mount



Dimensions (mm)

NS	①	②	③	④	⑤	⑥	⑦
2.5"	92	71	14	1/4"	34	63	26
3"	118.2	85.2	18	3/8"	32	77.5	30
4"	140	110	22	1/2"	45	98.5	38

B-Bottom mount with flange

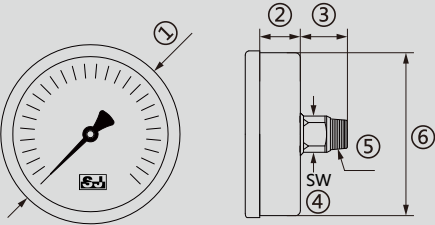


Dimensions (mm)

NS	①	②	③	④	⑤	⑥	⑦	⑧
2.5"	107	82.4	99.5	34	71	14	1/4"	6*4.4
3"	111.5	94	106.1	33	82.5	18	3/8"	6*7.5
4"	150.5	117	130	46.5	110	22	1/2"	4*3

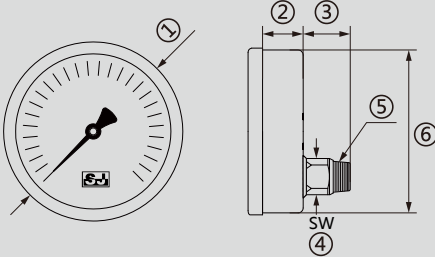
Dimensions

ADC-Center back mount



Dimensions (mm)						
NS	①	②	③	④	⑤	⑥
2.5"	71	25	26	14	1/4"	63.5
3"	85.1	32	30	18	3/8"	77.5
4"	110	28	38	22	1/2"	98.5

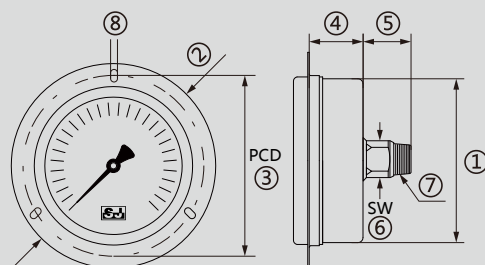
ADL-Lower back mount



Dimensions (mm)						
NS	①	②	③	④	⑤	⑥
4"	110	28	38	22	1/2"	98.5

Dimensions

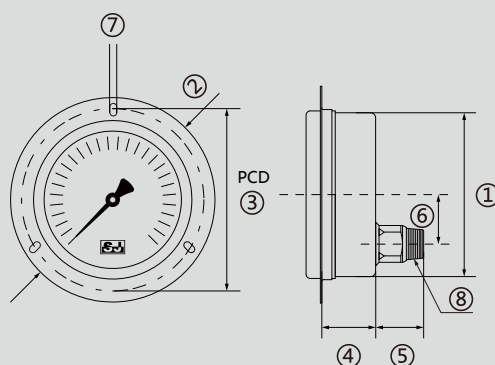
BDC-Center back mount
with flange



Dimensions (mm)

NS	①	②	③	④	⑤	⑥	⑦	⑧
2.5"	65	87.5	80.5	25	26	14	1/4"	4.5*3
3"	80	110	96	23	30	18	1/4"	4.5*3
4"	101	132.5	117	28	38	22	1/2"	6*3

BDL-Lower back mount with flange

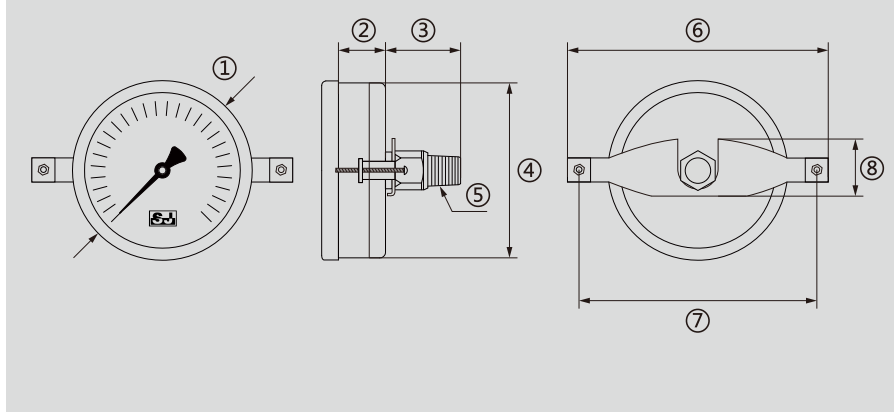


Dimensions (mm)

NS	①	②	③	④	⑤	⑥	⑦	⑧
4"	101	132.5	117	30	35	22.5	8*3	1/2"

Dimensions

UDC-Center back mount with U-clamp



Dimensions (mm)								
NS	①	②	③	④	⑤	⑥	⑦	⑧
2.5"	71	25	26	63.5	1/4"	96	88	28.5
3"	85.1	32	35	80	1/4"	135	127	44
4"	110	28	38	98.5	1/2"	135	127	44

All Stainless Steel: Laser-welding type

Model: PRDR.W

Product Description

- Integrally formed without any seams to avoid leakage effectively
- Vent valve and blow-out device (plug) for improved safety
- Used in petrochemical industry, power engineering and sewage treatment
- Same specifications as WIKA-232.50/233.50



Product Specification

Connection location

Bottom mount, back mount,
with/without flange

Nominal size

2.5", 4", 6"

Scale ranges

0 ... 0.6 kg/cm² to 1600 kg/cm² , or
other equivalent units of pressure,
vacuum or compound

Accuracy

2.5": ±1.6% F.S.
4", 6": ±1.0% F.S.

Process connection

316L SS
1/4", 3/8", 1/2"; PT, G, NPT

Case/Ring

304 SS, 316 SS
With blow-out device at case
circumference, vent valve

Window

Safety glass

Dial

Aluminum alloy, black scale on white

Product Specification

Vent-plug

Scale ranges $\leq 0 \dots 16 \text{ kg/cm}^2$ with compensating valve to vent and reseal case

Pointer

Black aluminum alloy
2.5": normal; 4", 6": adjustable

Filling liquid

Without, glycerine, silicone oil

Accessories (options)

4", 6": Drag pointer
4": Adjustable set pointer

Ambient temperature

-40°C ... 60°C (non-liquid-filled)
-20°C ... 60°C (liquid-filled)

Medium temperature

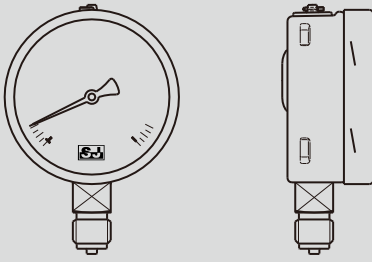
Maximum 200°C (non-liquid-filled)
Maximum 100°C (liquid-filled)

Protection level

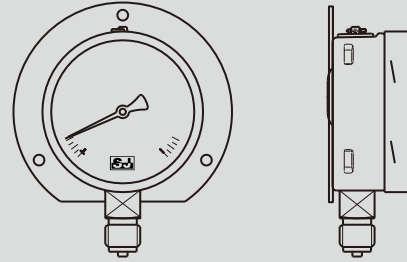
IP65

Connection Location

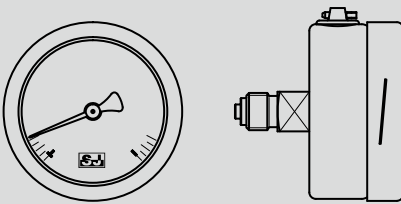
A-Bottom mount



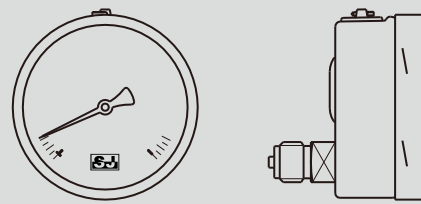
B-Bottom mount with flange



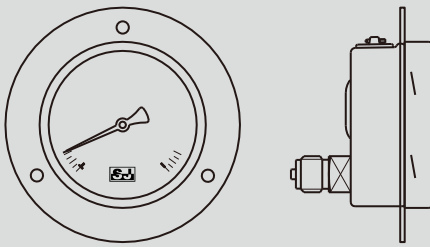
ADC-Center back mount



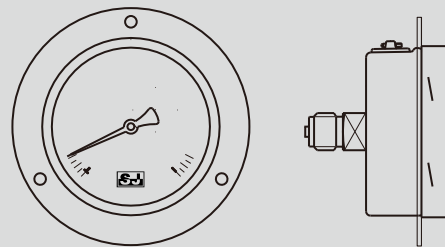
ADL-Lower back mount



BDL-Lower back mount with flange



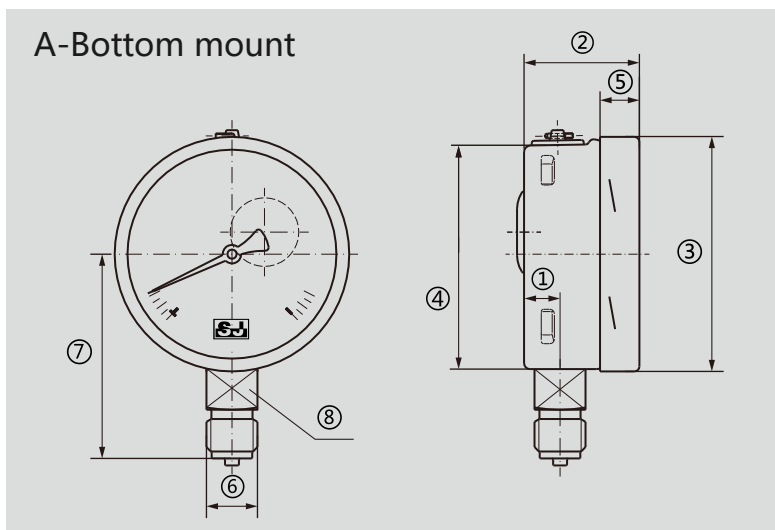
BDC-Center back mount with flange



Connection location						
NS	A	B	ADC	ADL	BDL	BDC
2.5"	V	-	V	-	V	V
4"	V	V	-	V	V	-
6"	V	-	-	V	V	-

Dimensions

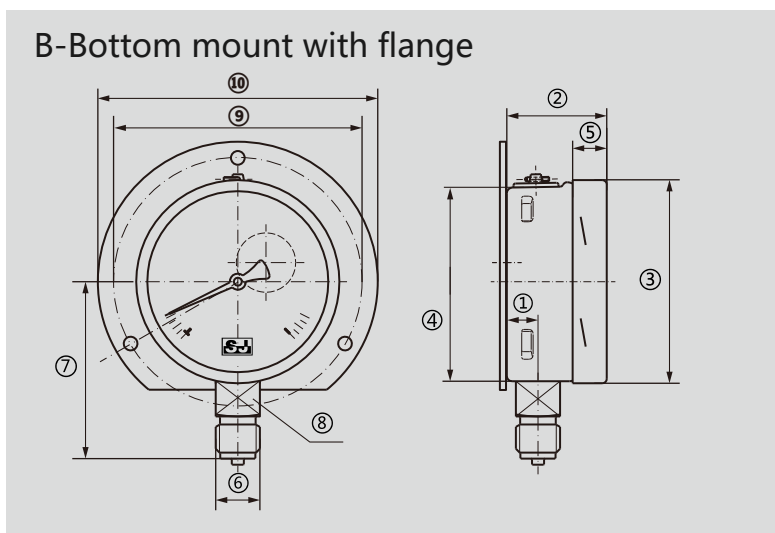
A-Bottom mount



Dimensions (mm)

NS	①	②	③	④	⑤	⑥	⑦	⑧
2.5"	9.5	33	63	62	11.5	1/4"	54	14
4"	15.5	49.5	101	99	17.5	1/2"	87	22
6"	14	49.5	160	156	16.9	1/2"	118	22

B-Bottom mount with flange

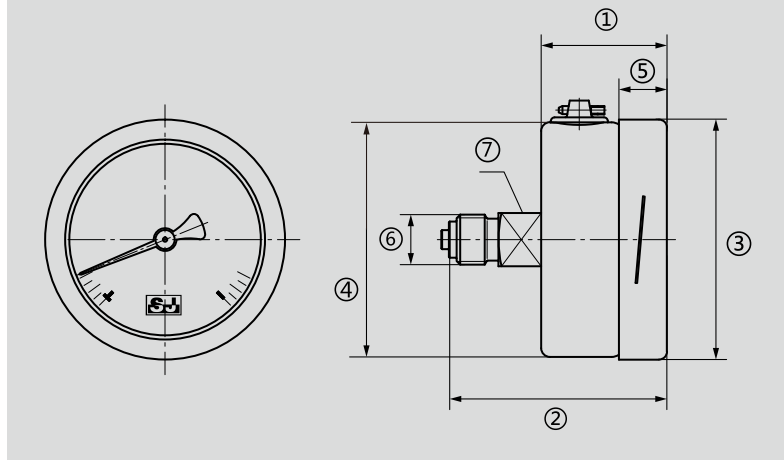


Dimensions (mm)

NS	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩
4"	15.5	49.5	101	99	17.5	1/2"	87	22	118	132

Dimensions

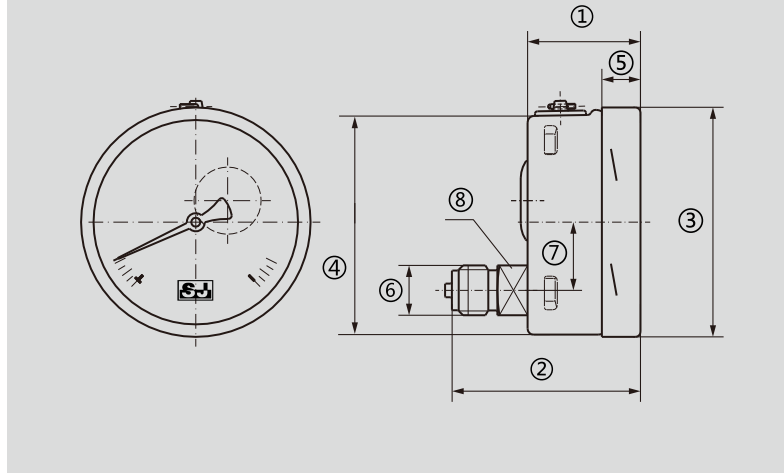
ADC-Center back mount



Dimensions (mm)

NS	①	②	③	④	⑤	⑥	⑦
2.5"	33	57	63	62	11.5	1/4"	14

ADL-Lower back mount

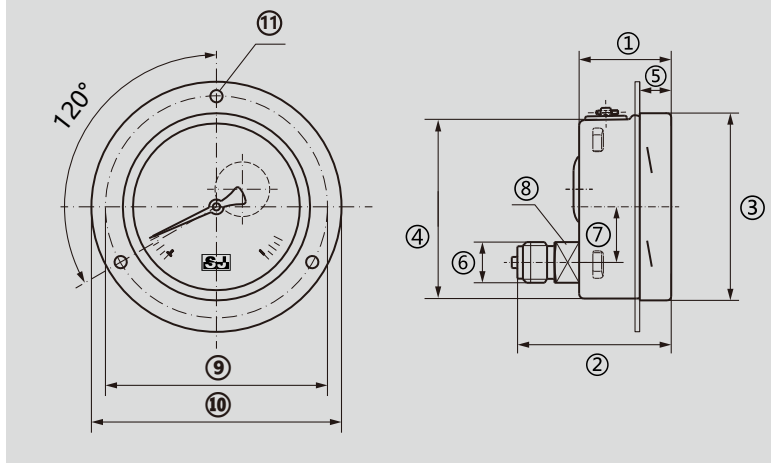


Dimensions (mm)

NS	①	②	③	④	⑤	⑥	⑦	⑧
4"	49.5	83	101	99	17.5	1/2"	30	22
6"	49.5	83	161	159	17.5	1/2"	50	22

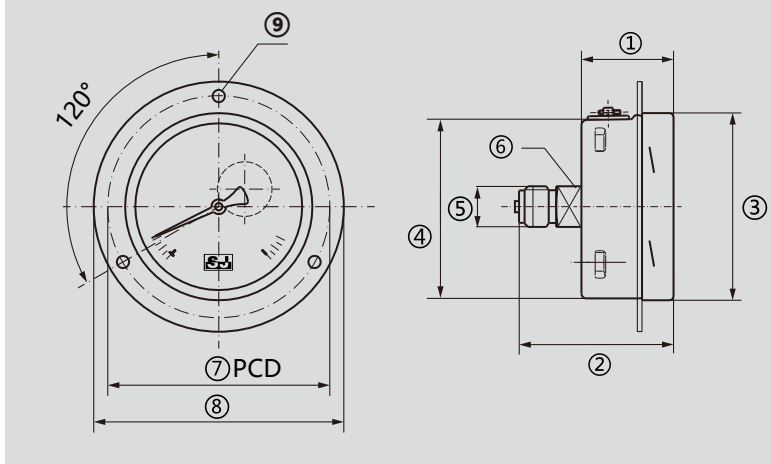
Dimensions

BDL-Lower back mount with flange



Dimensions (mm)											
NS	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪
2.5"	33	60	64.4	62	17.5	1/4"	30	14	80	90	6.6x4.4
4"	49.5	83	101	99	17.5	1/2"	30	22	118	132	Φ4.8
6"	50	91	160	158	17.5	1/2"	29	22	178	198	Φ6

BDC-Center back mount with flange



Dimensions (mm)									
NS	①	②	③	④	⑤	⑥	⑦	⑧	⑨
2.5"	33.5	61	64.4	64	1/4"	14	76.4	90	6.6x4.4



Accessories

4"、6": Drag pointer



Accessories

4": Adjustable set pointer

Stainless Steel Case Pressure Gauge

Model: PRS

Product Description

- For liquid or gaseous pressure media that will not attack copper alloy parts
- Prepared for liquid filling for applications with high dynamic pressure loads or vibrations
- Suitable for pumps, compressors, hydraulics or other indoor and outdoor applications



Product Specification

Nominal size

1.5", 2", 2.5", 3", 4"

Scale ranges0 ... 1kg/cm² to 0 ... 1000kg/cm², or other equivalent units of pressure, vacuum or compound**Accuracy**

1.5", 2": ±2% F.S.

2.5", 3", 4": ±1.6% F.S.

Process connection

Brass or chromium plated brass

1/8", 1/4", 3/8", 1/2"

PT, G, NPT

Case/Ring

304 SS

Window

Polycarbonate (standard), glass

Dial

Aluminum alloy, black scale on white

Pointer

Black aluminum alloy

Movement

Copper alloy

Bourdon tube

Copper alloy

Product Specification

Filling liquid

Without, glycerine, silicone oil

Accessories

2.5", 4": adjustable set pointer (options)

Pressure limitation

Steady: full scale value

Fluctuating: 0.9 x full scale value

Ambient temperature

-40°C ... 60°C (unfilled or silicone oil filled)

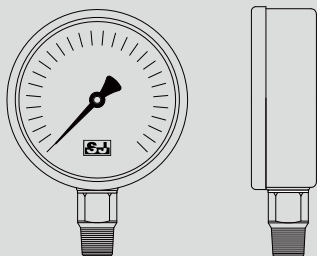
-20°C ... 60°C (glycerine filled)

Medium temperature

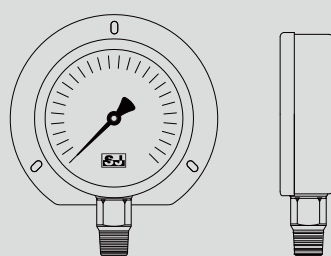
60°C maximum

Connection Location

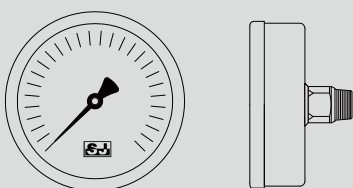
A-Bottom mount



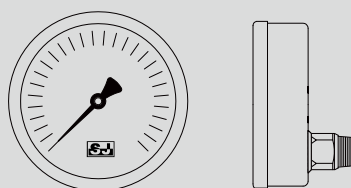
B-Bottom mount with flange



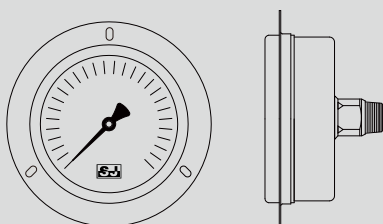
ADC-Center back mount



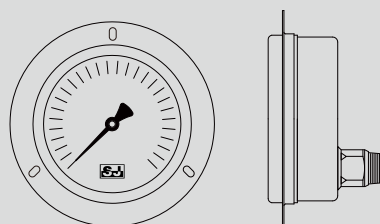
ADL-Lower back mount



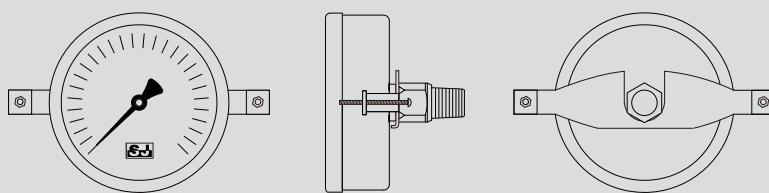
BDC-Center back mount with flange



BDL-Lower back mount with flange



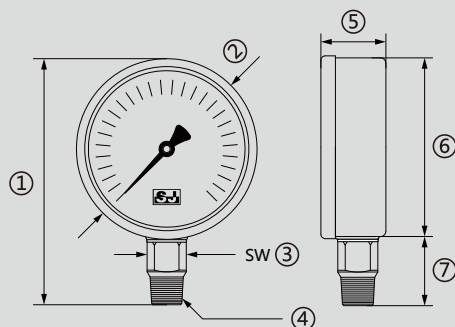
UDC-Center back mount with U-clamp



Connection location							
NS	A	B	ADC	ADL	BDC	BDL	UDC
1.5"	V	-	V	-	V	-	V
2"	V	-	V	-	V	-	V
2.5"	V	V	V	-	V	-	V
3"	V	V	V	-	V	-	V
4"	V	V	V	V	V	V	V

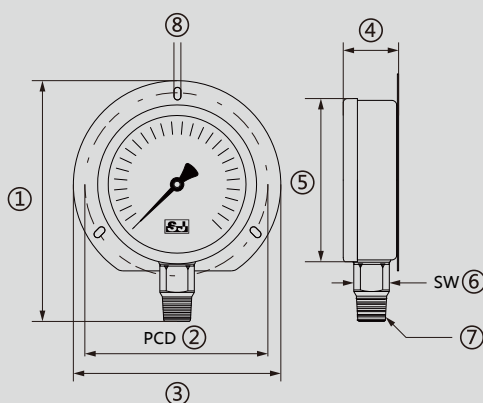
Dimensions

A-Bottom mount



Dimensions (mm)							
NS	①	②	③	④	⑤	⑥	⑦
1.5"	60	48	12	1/8"	28	41.8	16
2"	78.5	57	14	1/4"	29.5	50.5	25
2.5"	92	71	14	1/4"	34	63	26
3"	118.2	85.2	18	3/8"	32	77.5	30
4"	140	110	22	1/2"	45	98.5	38

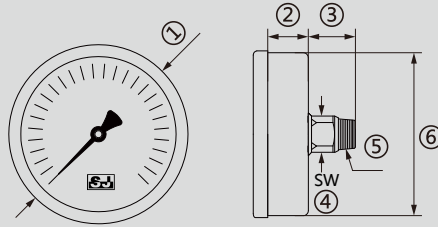
B-Bottom mount with flange



Dimensions (mm)								
NS	①	②	③	④	⑤	⑥	⑦	⑧
2.5"	107	82.4	99.5	34	71	14	1/4"	6*4.4
3"	111.5	94	106.1	33	82.5	18	3/8"	6*7.5
4"	150.5	117	130	46.5	110	22	1/2"	4*3

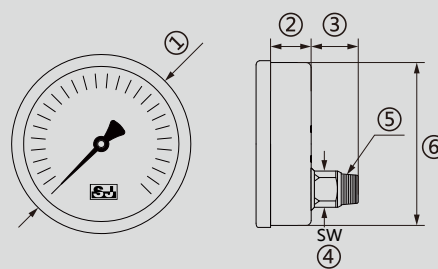
Dimensions

ADC-Center back mount



Dimensions (mm)						
NS	①	②	③	④	⑤	⑥
1.5"	48	22	16	12	1/8"	41.8
2"	57	22	21	14	1/4"	50.5
2.5"	71	25	26	14	1/4"	63.5
3"	85.1	32	30	18	3/8"	77.5
4"	110	28	38	22	1/2"	98.5

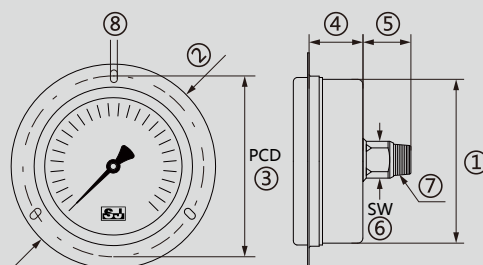
ADL-Lower back mount



Dimensions (mm)						
NS	①	②	③	④	⑤	⑥
4"	110	28	38	22	1/2"	98.5

Dimensions

BDC-Center back mount
with flange

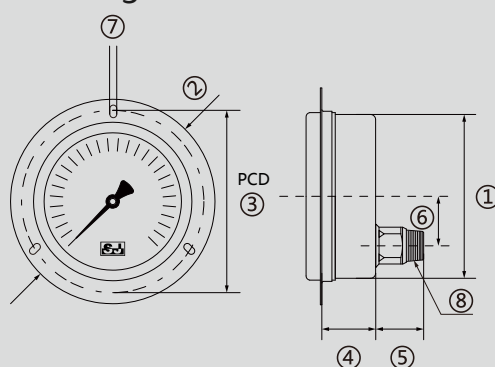


Dimensions (mm)

NS	①	②	③	④	⑤	⑥	⑦	⑧
1.5"	44	62.7	55.5	22	16	12	1/8"	4*3
2"	52.5	71.5	64.5	21	22	14	1/4"	4*4
2.5"	65	87.5	80.5	25	26	14	1/4"	4.5*3
3"	80	110	96	23	30	18	1/4"	4.5*3
4"	101	132.5	117	28	38	22	1/2"	6*3

① The width of the overlap between the edge and the shell is included.

BDL-Lower back mount
with flange

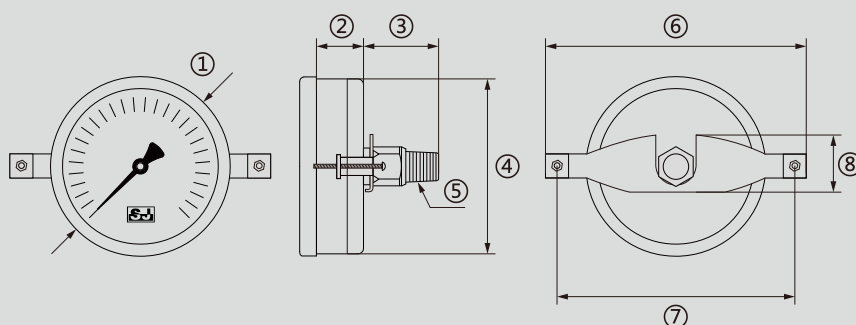


Dimensions (mm)

NS	①	②	③	④	⑤	⑥	⑦	⑧
4"	101	132.5	117	30	35	22.5	8*3	1/2"

Dimensions

UDC-Center back mount with U-clamp



Dimensions (mm)								
NS	①	②	③	④	⑤	⑥	⑦	⑧
1.5"	48	22	21	41.8	1/4"	70	62	27.5
2"	57	22	21	50.5	1/4"	80	72	28
2.5"	71	25	26	63.5	1/4"	96	88	28.5
3"	85.1	32	35	80	1/4"	135	127	44
4"	110	28	38	98.5	1/2"	135	127	44

Phenolic Pressure Gauge

Model: PRPC

Product Description

- Phenolic case is resistant to heat and high acid, and also provides good insulation
- Solid barrier on the front and pressure relief system on the back for safer measuring



Product Specification

Connection location

Bottom mount, back mount

Nominal size

115 mm

Scale ranges

0 ... 6 kPa to 0 ... 100 MPa,
or other equivalent units of pressure,
vacuum or compound

Accuracy

±1.0% F.S. , ±1.6% F.S. , ±2.5% F.S.

Process connection

316L SS

1/4", 3/8", 1/2"

PT, G, NPT

Case

Phenol, with solid baffle wall (solid-front) and blow-out back

Window

Safety glass

Dial

Aluminum alloy, black scale on white

Pointer

Black aluminum alloy

Movement

304 SS

Bourdon tube

316L SS

Product Specification

Accessories (options)

Silicone dampened movement

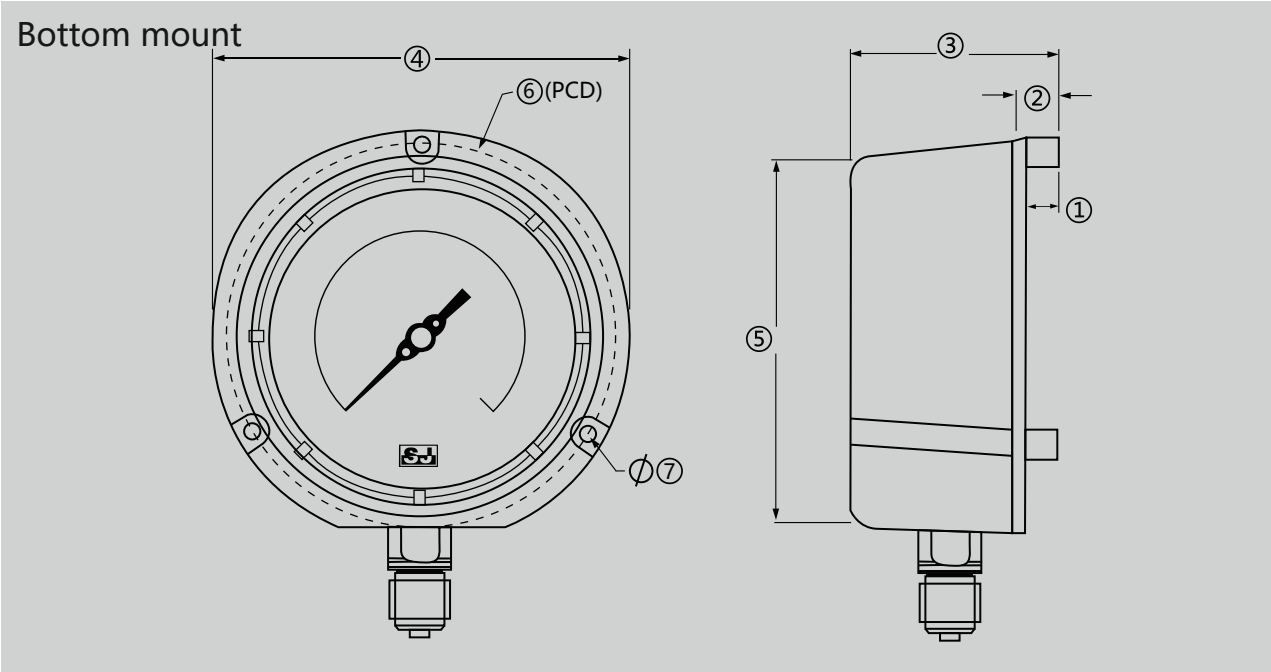
Ambient temperature

-20 °C ... 60 °C

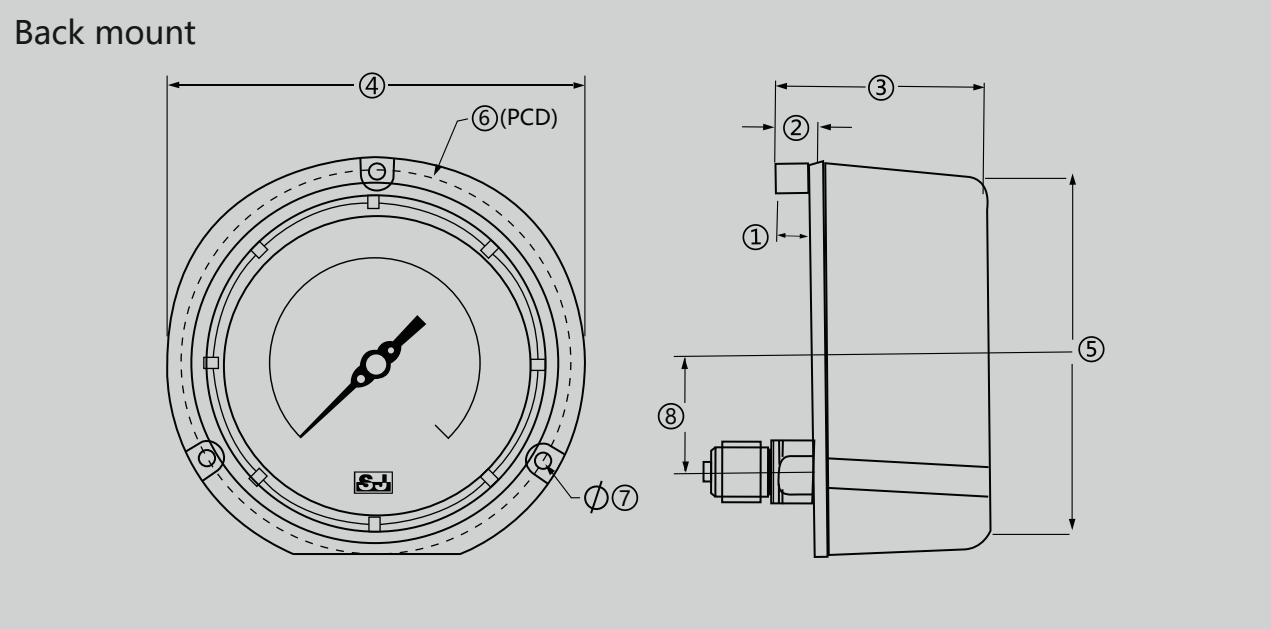
Medium temperature

-20 °C ... 100 °C

Dimensions



Dimensions (mm)							
NS	①	②	③	④	⑤	⑥	⑦
115	11.5	12.5	83	151	141	119	8



Dimensions (mm)								
NS	①	②	③	④	⑤	⑥	⑦	⑧
115	11.5	12.5	83	151	141	119	8	30.5

4ManPro

*Elements For
Manufacturing Processes*

MEXICO BRANCH OFFICE

Roberto Diaz No. 401
Ciudad Industrial
Aguascalientes, Ags.
México
20290

4ManPro@4ManPro.com
(449) 171 3420
www.4ManPro.com/SPA/

*Elements For
Manufacturing Processes*



USA BRANCH OFFICE

4ManPro®
708 Main St.
10th Floor
Houston, Tx, USA
77002

4ManPro-USA@4ManPro.com
+1 (832) 871 5022
www.4ManPro.com/ENG/

For any changes to the specifications of this catalogue , the latest version shall prevail.

Copyright © 12/2019 by SIN JIA ENTERPRISE COMPANY LIMITED. All rights reserved.

