

### Pressure Gauge

#### All Stainless Steel Micro Pressure Gauge



MP-SUS

MP-SUS pressure gauge is suitable for slightly corrosive media which compatible with stainless steel micro pressure measurement in sanitary required environment.

▼ Size: Ø4", Ø6"

▼ Installation type: Bottom mount (A), bottom mount with flange (B), back mount (eccentric thread)(ADE), back mount with flange (eccentric thread)(BDE), back mount with U-Clamp (Eccentric thread)(UDE), back mount with flange and U-Clamp (Eccentric thread)(UBDE)

▼ Pressure connection: Material: SS316; Thread size: 1/4", 3/8", 1/2"; Thread type: BSPT, NPT, PF < Other thread spec. are available made-to-order >

▼ Ring material: Stainless steel

▼ Applicable fluid: Liquid and gas that compatible with SS316

▼ Accuracy: ±3%F.S. < standard > , ±1.6%F.S. < option >

#### Stainless Steel Case Pressure Gauge



SC

SC pressure gauge has various size and installation type for selection, which is suitable for measuring slight corrosive media that compatible with copper alloy. Particularly used in hydraulics, compressors, general mechanical engineering, pumps, water treatment plants.

▼ Size: Ø1.5", Ø2", Ø2.5", Ø3", Ø4", Ø6"

▼ Installation type: Bottom mount(A), bottom mount with flange(B), back mount (Centric thread)(ADC), back mount (Eccentric thread) (ADE), back mount with flange (Centric thread)(BDC), back mount with flange (Eccentric thread) (BDE), back mount with U-Clamp (Centric thread)(UDC), back mount with U-Clamp (Eccentric thread)(UDE), back mount with flange and U-Clamp (Centric thread) (UBDC), back mount with flange and U-Clamp (Eccentric thread)(UBDE)

▼ Pressure connection: Material: Copper alloy; Thread size: 1/8", 1/4", 3/8", 1/2"; Thread type: BSPT, NPT, PF

▼ Accuracy: ±2%F.S.(Ø1.5", Ø2"), ±1.5% F.S.(Ø2.5"~ Ø6")

#### All Stainless Steel Pressure Gauge



SUS

Various size and installation type for selection. It applicable to measure slight corrosive media that compatible with stainless steel. Particularly used in chemical, petrochemical, food industry, biochemistry and any rush industries.

▼ Size: Ø1.5", Ø2", Ø2.5", Ø3", Ø4", Ø6", Ø8", Ø10"

▼ Installation type: Bottom mount(A), bottom mount with flange(B), back mount (centric thread)(ADC), back mount (eccentric thread)(ADE), back mount with flange (centric thread)(BDC), back mount with flange (eccentric thread)(BDE), back mount with U-clamp (centric thread)(UDC), back mount with U-clamp (eccentric thread)(UDE), back mount with flange and U-clamp (centric thread)(UBDC), back mount with flange and U-clamp (eccentric thread)(UBDE)

▼ Pressure connection: Material: SS316; Thread size: 1/8", 1/4", 3/8", 1/2"; Thread type: BSPT, NPT, PF

▼ Accuracy: ±2%F.S.(Ø1.5", Ø2"), ±1.5%F.S.(Ø2", Ø3"), ±1.0% F.S. (Ø3" ~ Ø10")

## Solid Front Pressure Gauge (Phenolic Resin Type)



SFPC

SPFC adopts special material phenolic resin. Its solid front design ensures operator's safety makes it suitable for industrial environment needs.

▼ Size: Ø4.5"

▼ Installation type: Bottom mount (A), bottom mount with flange (B)

▼ Pressure connection: Material: SS304, with O-ring sealed;

Thread size: 1/4", 1/2"; Thread type: BSPT, NPT, PF

<Other thread specs. are available made-to-order>

▼ Ring: Material: phenolic resin, solid front design (removable)

▼ Applicable fluid: Liquid and gas that compatible with connection's material

▼ Accuracy:  $\pm 1.0\%$  F.S.

## Pressure Gauge with Electrical Contact (Magnetic Snap-action Switch Type)



ECM

ECM pressure gauge with magnetic snap-action switch contact SPST is used to control the connected facility, ensuring field safety operation.

▼ Size: Ø3", Ø4", Ø6"

▼ Installation type: Bottom mount (A), Bottom mount with flange (B),

Back mount with flange (Eccentric thread)(BDE)

▼ Pressure connection: Material: SS316; Thread size: 1/4", 3/8", 1/2";

Thread type: BSPT, NPT, PF

▼ Wiring type: Visual wiring (FL), Visual magnet base with junction box (JB),

Concealed magnet base with junction box (H) (Only available for Ø4&Ø6")

▼ Accuracy:  $\pm 2.5\%$  F.S. < Standard >,  $\pm 1.6\%$  F.S. < Option >,  $\pm 1.0\%$  F.S. < Option >

## Digital Pressure Gauge (General Type)



DPG-3.0

DPG-3.0 can record the highest pressure value, CE certification, protection grade IP65. Wide range of applications, can be applied to a variety of workplace.

▼ Size: Ø3"(75.5mm)

▼ Pressure connection: Material: SS304L; Thread spec.: 1/4"NPT<standard>, 1/4"PT<option> <Other thread spec. are available made-to-order>

▼ Screen display: 4-digit LCD

▼ Screen size: 30mm\*14.5mm

▼ Accuracy:  $\pm 0.25\%$  F.S. (@22°C),  $\pm 0.5\%$  F.S. (0°C~50°C)

▼ Power supply: 9V battery, 24V external power supply

▼ Case: ABS

## 2.5" Digital Air Pressure Gauge



DPG-A2.5

DPG-A2.5 small size digital pressure gauge is designed for air pressure measurement, suitable for general industrial application.

▼ Size: Ø2.5"(68mm)

▼ Installation type: Bottom mount, back mount

▼ Pressure connection: Material: Copper alloy; Thread size: 1/8", 1/4";

Thread type: NPT, PT

▼ Screen display: 4-digit LCD display with backlight function

▼ Screen size: 33mm\*17mm

▼ Power supply: CR123A battery (3.0 V · 1400mAh)

▼ Accuracy:  $\pm 1.0\%$  F.S. (@25±3°C)

# Differential Pressure Gauge

## Digital Precision Differential Pressure Gauge



AT803-D

The accuracy of AT803-D digital precision differential pressure gauge is up to 0.05%, which is suitable for high precision micro differential pressure measurement such as on-site and laboratory pressure measurement and calibration.

▼ Size: Ø3.5" (95mm)

▼ Process connection: High and low pressure port: Ø4 mm test hose x2

▼ Differential pressure range: Min: 60Pa, Max.: 10kPa

▼ Compound pressure available

▼ Power supply: 3.6V lithium battery, AA batteries x3, Input DC 9V (2A) adapter

▼ Screen display: 5-digit LCD, 6-digit LCD

▼ Pressure unit: mmH<sub>2</sub>O, mmHg, inH<sub>2</sub>O, Pa, kPa, mbar

## All Stainless Steel Differential Pressure Gauge (Single Diaphragm, Dual Bellows Type)



MDI-Sddb

MDI-Sddb adopts single diaphragm and dual bellows as measuring elements, suitable for same or different pressure sources measurement in non-crystallized and non-solidified liquid, gas and steam that compatible with connection's material.

▼ Size: Ø4", Ø6"

▼ Installation type: Bottom mount(A), bottom mount with back flange(B), back mount(ADC), back mount with front flange(BDC)

▼ Pressure connection: Material: SS304 <Standard>, SS316 <Option>; 1/2"NPT

▼ Thread hole pitch (Calculate from center of thread): 54mm

<Other thread spec. are available made-to-order>

▼ Differential pressure range: 0...50 to 5000kPa

▼ Accuracy: ±2.0%F.S. <Standard>, ±1.6%F.S. <Option>

▼ Max. static pressure : 40bar

## All Stainless Steel Differential Pressure Gauge (Diaphragm Type)



MDD

MDD is mainly use for the positive and negative pressure port of the filter. It is suitable for measuring differential pressure of liquid level, pump inlet and outlet, oil pipeline, pipeline gas and pressurize pump station.

▼ Size: Ø4", Ø6"

▼ Installation type: Bottom mount(A), bottom mount with front flange(B), horizon connection(C1), vertical connection(C2)

▼ Pressure connection: Material: SS304; Thread size: 1/2";

Thread type: NPT, PF (Female thread)

▼ Thread hole pitch (Calculate from the center of thread): 54mm <standard>, 37mm <option>

▼ Differential pressure range: 0...0.25 to 25bar

▼ Accuracy: ±2.5%F.S. <standard>, ±1.6%F.S. <option>

▼ Maximum static pressure: ≤100bar <option>: 200bar, 400bar >

## All Stainless Steel Differential Pressure Gauge (Bellow type)



MDX

Adopts bellow as pressure sensor, which is suitable for measuring the differential pressure of liquid, gas and steam from same or different pressure source.

▼ Size: Ø4", Ø6"

▼ Installation type: Bottom Intersection (I), Bottom parallel (P), Bottom parallel with flange (PB), Back parallel (B), Back parallel with flange (BB)

▼ Pressure connection: Material: SS316; Thread size: 1/2"; Thread type: BSP, NPT <Other thread spec. are available made-to-order>

▼ Pressure range: 0 ... 0.1 to 50bar

▼ Accuracy: ±3%F.S. <standard>, ±2%F.S. <option>

▼ Maximum static pressure: ≤100bar <standard>, 200bar <option>, 400bar <option>



## Pressure Switch

### LED Digital Pressure Switch



DPS-4ED(0.5)

DPS-4ED(0.5) digital pressure switch integrates pressure measurement, display, and control. It is suitable for pressure measurement, display, and control in power plants, water, petroleum, chemical industry, engineering and other industrial environments.

▼ Pressure connection: Material: SUS316L, Welded seal structure;

M20\*1.5, M14\*1.5, G1/2", G3/8", G1/4", 1/2"NPT, 1/4"NPT

< Other thread spec. are available made-to-order >

▼ Screen display: 4-digit LED display

▼ Alarm output: Relay\*2

▼ Analog signal output: 4-20mA

▼ Pressure range: 0 to 600bar

▼ Accuracy:  $\pm 0.5\%$  F.S. < standard >,  $\pm 0.25\%$  F.S. < option >,  $\pm 0.1\%$  F.S. < option >

### Mechanical Pressure Switch (General Application Type)



AT511-7 Series

With SS316L bellow/diaphragm as measuring elements, AT511-7DS is suitable for corrosive gas and liquid measurement.

▼ Type: Normal: AT511-7D, Narrow dead band: AT511-7DK

▼ Pressure connection: Material: SS304; Thread spec.: G1/2"

▼ Adjustable set point range: -1...0 to 6.3MPa

▼ Switch type: SPDT micro switch

▼ Dead band: Fixed, Adjustable, Narrow fixed dead band

▼ Max operating pressure: 1MPa, 2MPa, 5MPa, 8.5MPa

< Vary from adjustable set point range >

### Flow Switch



RHFS

Adopts SPDT micro switch to control, can apply to pipeline that contains non-hazardous liquid (such as water, ethylene glycol, etc.). When liquid flow higher or lower than set flow, FS can interrupt or continue power supply through flow paddle.

▼ Type: Type E (Economic), Type SC (Stainless steel case), Type SUS (All stainless steel)

▼ Connection material: Brass, SS304

▼ Connection specification: RHFS-15: 1/2"-14NPT, RHFS-20: 3/4"-14NPT, RHFS-25: 1"-11NPT < Other thread spec. are available made-to-order >

▼ Applicable fluid: Type E / SC: Liquid compatible with brass, Type SUS: Slightly corrosive liquid compatible with SS304

▼ Max. operating pressure: 10bar(150psi)

▼ Operating voltage: 120, 208, 240, 227VAC

### Digital LCD Pressure Switch



DPS-K3.0

Economic long service life, one or two set of built-in relay are selectable, adjustable upper and lower limit value, easy wiring, simple operation.

▼ Size:  $\varnothing 3"$  (80mm)

▼ Installation type: Bottom mount, back mount

▼ Pressure connection: Material: SS304, 1/4"PT, 1/4"NPT, M20\*1.5

< Other thread spec. are available made-to-order >

▼ Pressure range: Min.: -0.1MPa, Max.: 100MPa

▼ Power supply: DC: 12V, 24V < standard >, AC: 220V, 380V < option >

▼ Case: ABS < standard >, Stainless steel < option >

# Pressure Transmitter

## Pressure Transmitter (General Type)



PT-VP

Adopts high stability piezoresistive pressure sensor and high performance transmitter special circuit to be used for long distance signal transmission.

▼ Pressure connection: M20\*1.5, G1/2", M14\*1.5, G1/4"(M), G1/4"(F), 1/2"NPT, 1/4"NPT, 1/4"PT, Material: SS304

▼ Electrical connector: Hirschmann connector, Hirschmann with cable outlet, cable outlet, packard, BP3 aluminum case, aviation plug

▼ Pressure type: Gauge pressure, sealed pressure, absolute pressure, compound pressure

▼ Output signal: 4~20mA, 1~5V, 0~5V, 0~10V, 0.5~4.5V

▼ Power supply: 24VDC, 12VDC

▼ Accuracy:  $\pm 0.5\%$  F.S. < standard > ,  $\pm 0.3\%$  F.S. < option > ,  $\pm 0.1\%$  F.S. < option >

## Differential Pressure Transmitter



DPT

DPT differential pressure transmitter adopts high sensitive piezoresistive silicon chip, which is a standard product for general differential pressure measurement.

▼ Pressure connection: M20\*1.5, G1/2", 1/4"NPT, Sealed with O-ring; O-ring material: NBR < standard > , Viton < option >

▼ Electrical connecti: Hirschmann, Wire boot, Packard, Aviation plug

▼ Differential pressure range: 10kPa, 35kPa, 70kPa, 100kPa, 250kPa, 400kPa, 600kPa, 1MPa, 1.6MPa, 2.5Mpa

▼ Output signal: Two-wire system: 4~20mA, Three-wire sys: 0.5 ~ 4.5V

▼ Accuracy:  $\pm 0.5\%$  F.S. < Option: others available upon requests >

## Level Pressure Transmitter



LPT-187

Adopts high performance diffused silicon diaphragm as the measuring element, with anti-interference, temperature compensation technology, and low temperature drift. It is suitable to put into media including gas, liquid, steam pressure and even various corrosive media for long-term use. Applications in areas of petroleum, chemistry, metallurgy, electricity, light industry, and machinery, etc.

▼ Pressure connection: M20\*1.5 male thread; Diameter:  $\varnothing 3\text{mm}$ ; Material: SS304, SS316 < Other thread spec. are available made-to-order >

▼ Pressure type: Gauge pressure, absolute pressure

▼ Measurement range: 0...0.3~200mH<sub>2</sub>O

▼ Output signal: 2-wire: 4-20mA, 0-10mA, 3-wire: 0-5V, 1-5V

▼ Accuracy:  $\pm 0.5\%$  F.S. < standard > ,  $\pm 0.2\%$  F.S. < option > ,  $\pm 0.1\%$  F.S. < option >

## Geothermal Water Level Pressure Transmitter



LPTX-HT420S

LPTX-HT420S is a heat-resistance level transmitter which is suitable for high temperature fluid level measurement. It has been widely in geothermal water, boiler level measurement and water electricity, power generator level monitor.

▼ Type: General, outdoor, wellhead, flameproof, explosion-proof

▼ Installation type: Submersible cable outlet < standard > , thread connection < option >

▼ Electrical Connection: Cable outlet

▼ Level measurement range: 0~1...500mH<sub>2</sub>O

▼ Output signal: 2-wire: 4~20mA, 3-wire: 0~5V, 1~5V, 0~10V

▼ Accuracy:  $\pm 0.5\%$  F.S. < standard > ,  $\pm 0.25\%$  F.S. < option >

# Thermometer

## Bimetal Thermometer (Adjustable Angle Type)



BTA

BTA adjustable angle type thermometer adopts bimetallic measuring elements with wide temperature measurement range (-50 to 600°C). Stem length and outer diameter can be customized upon request, which makes it suitable for various industrial environment.

▼ Size: Ø3", Ø4", Ø5", Ø6"

▼ Installation type: Adjustable angle installation

▼ Process connection: Material: SS304; Thread size: 1/4", 3/8", 1/2", 3/4", 1"; Thread type: BSPT, NPT, PF

▼ Stem: Material: SS304, SS316; Outer diameter: 6.35mm;

Length: 63mm ~ 2032mm

▼ Temperature range: Min.-50°C, Max.+600°C

▼ Temperature accuracy: ±1.5%F.S. < standard > , ±1.0%F.S. < option >

## Bimetal Thermometer (Back mount)



BTT

BTT back mount type thermometer adopts bimetallic measuring elements with wide temperature measurement range (-50 to 600°C). Stem length and outer diameter can be customized upon request, which makes it suitable for various industrial environment.

▼ Size: Ø1", Ø1.5", Ø2", Ø2.5", Ø3", Ø4", Ø5", Ø6"

▼ Installation type: Back mount

▼ Process connection: Material: SS304; Thread size: 1/4", 3/8", 1/2", 3/4", 1"; Thread type: BSPT, NPT, PF

▼ Stem: Material: SS304, SS316; Outer diameter: 6.35mm;

Length: 63mm ~ 2032mm

▼ Temperature range: Min.-50°C, Max.+600°C

▼ Temperature accuracy: ±1.5%F.S. < standard > , ±1.0%F.S. < option >

## Remote Reading Digital Thermometer



DTG-FT

Adopts all stainless steel material. The stem, capillary length, thread material and specification are available made-to-order. Install a thermowell is recommended.

▼ Size: Ø4" (108mm)

▼ Installation type: Bottom mount, back mount, three-hole flange fixed

▼ Process connection: Material: SS304; 1/2"NPT; swivel male thread  
< Other thread spec. are available made-to-order >

▼ Stem: Material: SS304; Outer diameter: 12mm; Length: 150mm (Standard)

▼ Temperature range: Min.-50°C, Max.+125°C

▼ Accuracy: ±1°C < -20°C to 80°C > , ±2°C < Other temperature range >

▼ Ring: Stainless steel, screw fixed

## Remote Reading Thermometer



FT series

The capillary of remote reading thermometer is filled with gas or liquid as its sensing elements. FT series thermometer is frequently used in remote temperature measurement to monitor temperature from certain distance. The outer diameter and length of stem and capillary can be customized to meet the needs of various installation environments.

▼ Size: Ø3", Ø4", Ø5", Ø6"

▼ Installation type: Back mount with flange (FTFF), back mount with U-clamp (FTFU), wall mount with flange (FTWF), wall mount with 3-hole flange (FTWE)

▼ Process connection: Material: SS304; 1/2"PT, 3/8"PT with swivel nut (male thread)

▼ Stem: Material: SS304, SS316; Length: 150mm (standard);

Outer diameter: 12mm, Outer diameter / length can be customized upon request

▼ Temperature range: Min.-50°C, Max.+650°C

▼ Temperature accuracy: ±1.0%F.S.

## 6" / 6.5" Industrial Glass Thermometer



PGL6

PGL6 industrial glass thermometer adopts liquid expansion as measuring elements. The glass tube is filled with organic liquid exclude mercury.

Temperature range -10 ~ 200°C.

▼ Size: 6"

▼ Installation type: 90° angle installation

▼ Stem: Material: Copper; Outer diameter: 9.5mm

▼ Stem connection: Material: Copper alloy; Thread: 3/4" \*16, without thread

▼ Thermowell: Material: Copper alloy, SS304;

Thread: 1/2" PT; length include thread: 48mm, 58mm

▼ Liquid-in-glass: Red organic liquid

▼ Temperature accuracy: ±1.0%F.S.

## 9" Adjustable Angle Industrial Glass Thermometer



TGA9

TGA9 adopts liquid expansion as measuring elements. TGA9 has been widely used in air conditioning, piping and other industrial temperature measurement.

▼ Size: 9"

▼ Installation type: Adjustable angle type

▼ Stem: Material: aluminum alloy; Outer diameter: 10.9 mm

▼ Stem connection: Material: copper alloy; Specification: 1-1/4" -18UNEF

▼ Thermowell: Material: copper alloy, SS304; Length: 3.5" (90mm, include thread, outer diameter 16mm), 6" (151mm, include thread, outer diameter 23mm)

▼ Temperature range: Min.-40°C, Max.+400°C

▼ Liquid-in-glass: Red organic liquid, Mercury (for temp. < 200°C)

▼ Temperature accuracy: ±1.0%F.S.

## Diaphragm Seal

### Threaded Diaphragm Seals (I-shape)



DS200-GP(S)

Mutual-to-lock bolt design, flushing hole is optional. Suitable for corrosive, acid, crystallize, viscous, high temperature, sewage, heavy oil, concrete, impurities and other fluids. Applicable to petrochemical plants, chemical plants, paper mills, sewage treatment, dye coating and other places.

▼ Structure: Mutual-to-lock bolt, I-shape flange

▼ Pressure range: Min.0.6bar, Max.100bar

▼ Protection level: IP68

### Threaded Diaphragm Seal



DS160(S)

Sealing diaphragm is generally installed with pressure gauges, switches, transmitters and other measuring instruments to isolate corrosive, crystallize, viscous media that will block or damage the pressure measurement system. Depend on the use of media, connected pressure gauge, temperature and other factors, different kinds of materials, oil, pressure range can be selected in order to make the diaphragm normal operation.

▼ Diaphragm outer diameter: Ø60mm

▼ Connection size: 1/4", 3/8", 1/2", 3/4", 1"

▼ Connection type: BSPT, NPT, PF (Male / female thread)

▼ Pressure range: Min.1bar · Max.60bar

▼ Protection level: IP67



## All Weled Diaphragm (Threaded type)



DS170(W)

Applicable to corrosive and low crystallized fluid, suitable for petrochemical plants, chemical plants, paper mills, sewage treatment, dye coating and other places.

- ▼ Diaphragm outer diameter: Ø70 mm
- ▼ Connection size: 1/4" , 3/8" , 1/2" , 3/4" , 1"
- ▼ Connection type: BSPT, NPT, PF
- ▼ Pressure range: Min. 1bar, Max. 60bar
- ▼ Protection level: IP68

## Threaded Diaphragm seal



DS190(S)

Sealing diaphragm is generally installed with pressure gauges, switches, transmitters and other measuring instruments to isolate corrosive, crystallize, viscous media that will block or damage the pressure measurement system. Depend on the use of media, connected pressure gauge, temperature and other factors, different kinds of materials, oil, pressure range can be selected in order to make the diaphragm normal operation.

- ▼ Diaphragm outer diameter: 90mm
- ▼ Structure: Solid rivet, threaded type
- ▼ Connection size: 1/4", 3/8", 1/2", 3/4", 1"
- ▼ Connection type: BSPT, NPT, PF (Male / female thread)
- ▼ Pressure range: Min.0.4bar , Max.60bar

## Accessory

### Cock (Ball Valve)



- ▼ Material: Copper plated, SS304, SS316
- ▼ Connection: 1/4", 3/8", 1/2" PT female thread
- < Special spec. are available made-to-order >

### Syphon



- ▼ Material: Galvanized iron, SS304, SS316
- ▼ Type: Standard, U-type (90°), O-type (180°)
- ▼ Connection: 1/4", 3/8", 1/2"PT; male or female thread
- < Special spec. are available made-to-order >

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For more information please check our website

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