

### 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), bottom 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")

## Plastic Case Pressure Gauge



ABS

ABS plastic case pressure gauge has various size and installation type for selection. It applicable to measure slight corrosive media that compatible with connection's material.

▼ Size: Ø1.5", Ø2", Ø2.5", Ø3", Ø4"

▼ Installation type: Bottom mount (A), back mount (centric thread) (ADC)

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

▼ Ring: Reinforced plastic ABS, crimp bezel (outside bayonet)

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

▼ Accuracy:  $\pm 3\%$ F.S. <standard> ,  $\pm 2.5\%$ F.S. <option> ,  $\pm 1.6\%$ F.S. <option>

## All Stainless Steel Precision Test Pressure Gauge



TPG-SUS

Features high accuracy with affordable price, which is suitable for calibration authority or laboratory that need high accuracy pressure measurement.

▼ Size: Ø6", Ø8"

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

▼ Pressure connection: Material: SS304, With rubber O-ring sealed; Thread size: 3/8", 1/2"; Thread type: BSPT, NPT, PF

▼ Applicable fluid: Liquid and gas that compatible with stainless steel

▼ Accuracy:  $\pm 0.4\%$ F.S. <standard> ,  $\pm 0.25\%$ F.S. <standard> ,  $\pm 0.16\%$ F.S. <option: available for size 8">

## 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

## Digital Pressure Gauge (General Type)



DPG-2.5

DPG-2.5 is an economic cost, convenient use and high performance digital pressure gauge, suitable for various instrument. It adopts latest temperature compensation technology to ensure  $\pm 1.0\%$ F.S. accuracy within 0~5000psi pressure measurement.

▼ Size: Ø2.5"

▼ Installation type: Bottom mount <standard> , Back mount <option>

▼ Pressure connection: Material: Stainless steel <standard> , copper alloy <option> ; Thread size: 1/4" <standard> , 1/8" <option> ; Thread specification: NPT, PT

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

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

▼ Accuracy:  $\pm 0.5\%$ F.S. (@22°C) ,  $\pm 1.0\%$ F.S. (0°C~50°C)

▼ Case material: Plastic

# Differential Pressure Gauge

## Differential Pressure Gauge (Magnetic Piston Type)



MDH-90EXC

Adopts all stainless steel reed piston sensing components, it covers micro pressure, low, medium and high differential pressure ranges. The scales are measured and the accuracy is reliable.

▼ Size: Ø2.5", Ø3", Ø4", Ø4.5", Ø6"

▼ Installation type: Left-right side mount (LR), Bottom mount (A), Back mount (AD)

▼ Connection material: Magnetic piston: SS316, Diaphragm: Aluminum alloy;

Thread size: 1/4", 1/2"; Thread type: BSP(F), NPT(F)

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

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

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

## All Stainless Steel Differential Pressure Gauge (Double Bourdon Tubes Type)



MDB

Measured by two set of bourdon tube at the front and back sides, all stainless steel design and long service life.

▼ Size: Ø4", Ø6"

▼ Installation type: Bottom mount (A), bottom mount with frontflange (BF), bottom mount with backflange (BB)

▼ Pressure connection: Material: SS304, welded connection; Thread size: 1/2"; Thread type: PT, NPT, PF

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

32mm < Standard >, 23mm < option >, 26.5mm < option >, 35mm < option >, 37mm < option >

▼ Differential pressure range: 0...1 to 60bar

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

▼ Maximum static pressure: 1\*full scale

## 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" < Other dial face size is available made-to-order >

▼ 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

## Compact Pressure Switch



ATHLP(S)

Mainly used to protect the refrigeration and air conditioning system, the pressure can be automatically adjusted by intake or release pressure, and it can also be used to control the refrigeration compressor and air compressor fan switch.

- ▼ Pressure connection: Material: Chrome-plated copper alloy; 7/16"UNF(1/4"SAE)
- ▼ Switch type: SPDT\*1
- ▼ Operating pressure: Max.30bar
- ▼ Operating voltage: Max.240VDC
- ▼ Operating current: Max.15A
- ▼ Case: White ABS

## Compact Pressure Switch (High/Low Pressure Type)



ATHLP(D)

Economical 2-set pressure switch (high and low pressure), wide application and standard installation bracket is provided (L-shape bracket).

- ▼ Pressure connection: Material: chromed brass, no O-ring sealed; 1/4"SAE female thread, 7/16"UNF male thread
- ▼ Switch type: SPDT
- ▼ Applicable fluid: Liquid and gas that compatible with copper alloy
- ▼ Operating pressure: Max.30bar
- ▼ Operating voltage: 240V
- ▼ Operating current: 15A
- ▼ Case: ABS (white), screw fixed

## 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

## Intelligent Pressure Switch



DPS-2.5SPD3

Three types of alarm outputs are available - Relay, NPN, PNP. Hysteresis and window mode can be set, 4-20mA or 1-5V analog output function, digital RS-485 output.

- ▼ Gauge size: Ø2.5"(63.5mm)
- ▼ Screen size: 35.5mm\*18mm
- ▼ Pressure connection: Material: SS316, Thread spec.: 1/4"PT, 1/4"NPT < Other thread spec. are available made-to-order >
- ▼ Reading display range: 5-digit, -19999~99999
- ▼ Pressure unit: bar, kg/cm<sup>2</sup>, kPa, MPa, psi, mmHg, inHg
- ▼ Accuracy: ±0.5%F.S. < Standard > , ±0.25%F.S. < Option >

## Temperature Sensor



ATT-110

Designed for air compressor, quick response to ambient temperature change, suitable for measuring liquid and gas temperature or solid surface temperature in various industrial processes.

▼ Process connection: M20\*1.5, R1/4, M12\*1.5; Material: stainless steel

< Other types are available, please specify your requests >

▼ Electrical connection: Cable outlet (2-wire), cable outlet (3-wire, standard), aviation plug

▼ Stem outer diameter: Ø4, Ø5, Ø6, Ø8, High temp. type(special): ≥Ø8

▼ Temperature range: -50°C to 150°C < standard >, -50°C to 300°C < with cooling fin >

▼ Protection level: IP65 < standard >, IP68 < 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. Widely used in remote control, aerospace, automotive, medical equipment and other fields of differential pressure, liquid level, flow measurement and control.

▼ 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: ±0.5% F.S. < Option: others available upon requests >

## Temperature Transmitter for Duct Type (2-wire analog output / digital output)



ATT-P4/D4 Series

Adopts stainless steel casing and German imported measuring elements, which can monitor temperature signal transmission. It is suitable for measuring gas, liquid, steam pressure and all kinds of corrosive media. It is widely used in food, medicine, petroleum, chemical industry, metallurgy, electric power, machinery, etc.

▼ Type: ATT-P4—2-wire analog output, ATT-D4—digital output

▼ Connection: 1/4"PT male thread, 1/2"PT male thread < option: without thread, active thread, special thread are available made-to-order >

▼ Electrical connector: ATT-P4—Hirschmann DIN43650, ATT-D4—M12 Quick coupling

▼ Output signal: ATT-P4—2-wire 4~20mA output, ATT-D4—Digital output

▼ Power supply: 10~30VDC

▼ Accuracy: ±0.5%F.S.

## Pressure Transmitter for High Temperature



PT-HT

Especially design for high temperature media measurement. High temperature resistance sensor and cooling fin are adopted to ensure high temperature measurement with stable performance.

▼ Pressure connection: M20\*1.5, G1/2"; Material: SS304

▼ Electrical connector: Hirschmann connector, cable outlet

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

▼ Pressure range: -0.1MPa...0~35kPa...100MPa

▼ Output signal: 4~20mA, 1 to 5V, 0 to 5V

▼ Power supply: 24VDC, 12VDC

▼ Accuracy: ±0.5%F.S. < standard >, ±0.3%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 Type)



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 >

## Handheld Thermocouple Thermometer



ATFC-305A

Connect with one Type K thermocouple can be widely used in various industrial environment temperature measurement needs.

▼ Dimension: 148mm\*71mm\*36mm

▼ Screen display: 3.5-digit LCD screen display, Max. reading 1999, Switchable temp. unit: °C, °F

▼ Temperature range: Min.-50°C (-58°F), Max.+1300°C (2372°F)

▼ Power supply: 9V battery

▼ Accuracy: When temp. -50°C to 1000°C, ±0.3% Readings +1°C;

When temp. 1000°C to 1300°C, ±0.5% Readings +1°C

## Remote Reading Thermometer with Electrical Contact (Micro Switch Type)



MS-FT Series

MS-FT series remote reading thermometer with SPDT micro switch, features high contact rating 5A, which is suitable for temperature control in high current environment.

▼ Size: Ø4", Ø6"

▼ Installation type: Back mount with fange (MS-FTFF), wall mount with flange (MS-FTWF)

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

▼ Stem: Material: SS304; Outer diameter: 6mm, 8mm, 10mm, 12mm

▼ Temperature range: Min.-200°C, Max.+600°C

▼ Contact number: SPDT\*1, SPDT\*2

▼ Gauge 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; Thread: 3/4" \*16, without thread

▼ Thermowell: Material: Copper, 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

### Integrated Diaphragm Pressure Gauge (PP Case Type)



PDSPL-S

PDSPL-S with integrated design, combined pressure gauge and diaphragm seal in one structure. Suitable for low corrosive, crystalized and viscous media measurement.

▼ Diaphragm: Ø2.5" (65mm)

▼ Installation type: Bottom mount

▼ Case cover: Black (diaphragm material: Viton), gray (diaphragm material: PTFE)

▼ Thread size: 1/2" , 1/4"

▼ Thread spec.: BSPT, NPT; male thread, female thread

▼ Pressure range: 0-10kg/cm<sup>2</sup> < standard > , max: 20kg/cm<sup>2</sup> < option >

▼ Accuracy: ±1.5%F.S.

### PP; PTFE Diaphragm Pressure Gauges



DS180(S)

Applicable to corrosive and low crystallization 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"

▼ Connection type: BSPT, NPT, PF

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

▼ Protection level: IP67



## Integrated Diaphragm Pressure Gauge (PVDF Case Type)



DSPLA

DSPLA diaphragm pressure gauge with integrated design, combined pressure gauge and diaphragm seal in one structure. DSPLA adopts PVDF case, which is suitable for low corrosive, crystalized and viscous media measurement.

- ▼ Diaphragm outer diameter:  $\varnothing 2.5"$  (65mm)
- ▼ Installation type: Bottom mount
- ▼ Thread size: 1/2", 1/4"
- ▼ Thread spec.: BSPT, NPT; male thread, female thread
- ▼ Pressure range: 0-10kg/cm<sup>2</sup> < standard > , max: 20kg/cm<sup>2</sup> < option >
- ▼ Accuracy:  $\pm 1.5\%$  F.S.
- ▼ Protection level: IP54

### Accessory

#### 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 >

#### Pressure Buffer



- ▼ Material: SS304, SS316 < standard > , copper < option >
- ▼ Connection: 1/4", 3/8", 1/2"; PT, NPT; PF male thread + female thread
- < Special spec. is available made-to-order >

#### 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 >

#### Thermowell



- ▼ Structure: Welded, all-in-one
- ▼ Material: copper, SS304, SS316
- ▼ Spec.: inner: 1/4", outer: 1/2"
- inner: 1/2", outer: 1/2"



\*This catalogue is subject to change without notice.  
For more information please check our website

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Rev3.2  
(201909)

