

### 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 >

#### 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")

#### 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: ±2.5%F.S. < Standard > , ±1.6%F.S. < Option > , ±1.0%F.S. < Option >

## Temperature Recorder



TR

Recording principle - chart paper rotation to drive record pen recording temperature. Single (standard) and dual (option) pen temperature record.

- ▼ Size: Ø8", Ø10", Ø12"
- ▼ Window: Glass < Standard > , tempered glass < option > ; with O-ring sealed
- ▼ Process connection: Material: SS304, copper alloy; with O-ring sealed; 1/2"
- ▼ Thread type: BSPT, NPT, PF
- ▼ Stem: Material: SS304, copper alloy; Outer diameter: 1/2"(12mm); Length: standard 6"
- ▼ Temperature range: Min.-50°C, Max.+500°C
- ▼ Recording period: 12/24hours electronic clock, 7 days a cycle
- ▼ Temperature accuracy: ±1.5%F.S.

## Pressure Gauge with Peak Hold Pointer



PHPG

Peak hold pointer can indicate the peak pressure value, ensuring the safety management in field operation.

- ▼ Size: Ø2.5", Ø4"
- ▼ Installation type: Bottom mount (A), bottom mount with flange (B), back mount (centric thread) (ADC), Back mount with flange (centric thread)(BDC), Back flange with flange (eccentric thread)(BDE)
- ▼ Pressure connection: Material: Copper, stainless steel; Thread size: 1/8", 1/4", 3/8", 1/2"; Thread type: BSPT, NPT, PF
- ▼ Fluid temperature: +60°C(copper alloy type), +100°C(stainless steel type)
- ▼ Protection level: IP54 for dry type < standard > , IP65 for liquid-filled type < option >
- ▼ Accuracy: ±1.6%F.S. < standard > , ±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: ±0.25%F.S. (@22°C), ±0.5%F.S. (0°C~50°C)
- ▼ Power supply: 9V battery, 24V external power supply
- ▼ Case: ABS

## Digital Pressure Gauge



DPG-S2.5

DPG-S2.5 pressure gauge has no movable parts, it has long service life.

High stability pressure sensor with high accuracy measurement makes it suitable for measuring gas and liquid pressure on medical equipment or pneumatic machine.

- ▼ Size: Ø2.5"(66mm)
- ▼ Pressure connection: Material: SS304; 1/4"PT, 1/4"NPT < Other thread spec. are available made-to-order >
- ▼ Screen display: 4-digit LCD with blue backlight
- ▼ Screen size: 46mm\*15mm
- ▼ Accuracy: ±0.5%F.S.
- ▼ Power supply: 1.5V battery\*2 < standard > , 5~12VDC external power supply < option >
- ▼ Case: Reinforced plastic ABS

## Differential Pressure Gauge

### 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:  $\pm 2.5\%$  F.S. < standard >,  $\pm 1.6\%$  F.S. < option >

▼ Maximum static pressure: 1\*full scale

### Simple Differential Pressure Switch



ATHLD

ATHLD is an economical different pressure switch, it can be widely used and provides installation bracket (L-shape rack).

▼ Pressure connection: Material: chromed brass, No O-ring sealed

Thread size: 1/4", 7/16"

▼ Thread type: SAE, UNF

▼ Operating pressure: Max.30bar

▼ Switch type: SPDT

▼ Operating voltage: 240V

▼ Ring: ABS (white), Screw fixed

### 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:  $\pm 2.5\%$  F.S. < standard >,  $\pm 1.6\%$  F.S. < option >

▼ Maximum static pressure:  $\leq 100$ bar < standard >, 200bar, 400bar < option >

### 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

# 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

## Digital Pressure Switch



DPS-3.0MD

The two switch output signals NPN and PNP are available for selections, can record the highest pressure value, rubber case is optional for better protection.

- ▼ Size: Ø3"(75.5mm)
- ▼ Pressure connection: Material: SS304L, Laser welding; 1/4"NPT < standard > , 1/4"PT < option > < Other thread spec. are available made-to-order >
- ▼ Switch output signal: NPN < standard > , PNP < option >
- ▼ Analog output signal < option > : 4-20mA
- ▼ Power supply: DC 8-28V, Recommended voltage: DC 24V
- ▼ Screen display: 4-digit LCD, Yellow backlight

## 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 >

## Mechanical Temperature Switch



AT540-7 Series

Suitable for neutral media measurement with adjustable set point range -20 to 70°C.

- ▼ Type: AT540-7T < Standard > , AT540-7TK < Narrow dead band >
- ▼ Adjustable set point range: -20°C~30°C , 0°C~50°C , 20°C~70°C
- ▼ Process connection: Nickel-plated copper < Standard > , SS304 < Option >
- ▼ Installation: Bottom mount < Standard > , wall mount with support rack < Option >
- ▼ Switch type: SPDT micro switch
- ▼ Case: Die casting aluminum
- ▼ Protection level: IP65



## Pressure Transmitter

### Temperature Transmitter for Duct Type with Display (2-wire analog output type)



ATT-P4-D

It can monitor temperature signal transmission and convert the measuring element signal into standard current output 4-20mA or digital signal. 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.

- ▼ Connection: Material: SS304; 1/4"PT male thread, 1/2"PT male thread  
<Option: without thread, swivel nut, special thread are available made-to-order >
- ▼ Temperature range: -50°C ~ +200°C
- ▼ Screen display size: 28mm\*16mm
- ▼ Display: 4.5-digit LCD display
- ▼ Output signal: 2-wire 4~20mA output
- ▼ 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>

### Flush Diaphragm Pressure Transmitter



FDPT Series

FDPT series flush diaphragm pressure transmitter adopts flush connection design. The blind space has been eliminated to prevent impurity generated, making FDPT series transmitter suitable for corrosive or viscous media pressure measurement.

- ▼ Type: FDPT(Standard), FDPT-HT(High temperature)
- ▼ Process connection: Material: SS316L; Spec.: G1/2"; Flush connection, Rubber O-ring sealed
- ▼ Electrical connection: Hirschmann connector DIN43650 , Cable outlet
- ▼ Pressure range: 0...1 to 100 bar
- ▼ Output signal: 2-wire: 4~20mA, 3-wire: 0-5V, 0-10V
- ▼ Accuracy: ±0.5%F.S. <standard> , ±0.25%F.S. <option> , ±0.1%F.S. <option>

### Compact Pressure Transmitter



AT-PT183

AT-PT183 compact pressure transmitter adopts high accuracy and stability pressure sensor. Its features include low temperature drift, high anti-interference and anti-surge technology. The compact design with all stainless case ensuring its high reliability. It has been widely applied in high interference environment such as frequency conversion, hydraulic and pneumatic pressure system.

- ▼ Pressure type: Gauge pressure, compound pressure, absolute pressure
- ▼ Process connection: Material: SS316, SS304, Hastelloy C; M20\*1.5, G1/2", 1/2"NPT; Clamp connection
- ▼ Electronical connection: Hirschmann connector <standard> , Hirschmann with cable outlet, Cable outlet, Aviation plug <option>
- ▼ Power supply: 15~36VDC
- ▼ Output signal: 4~20mA, 0~10V, 0~5V, 1~5V
- ▼ Accuracy: ±0.5% F.S. <standard> , ±0.2%F.S. <option> , ±0.1%F.S. <option>

## Bimetal Thermometer (Bar Magnets Type)



BT-BM

BITHERMA brand, all stainless steel material is available for selections, adopts magnetic block adsorption installation, the number of magnetic blocks can be increased according to demand.

- ▼ Size: Ø2", Ø2.5", Ø3", Ø4"
- ▼ Temperature range: Min.-50°C, Max.+400°C
- ▼ Application: Back mount with bar magnets
- ▼ Measuring elements: Bi-metal spiral spring
- ▼ Temperature accuracy,  $\pm 2.5\%$ F.S.

## 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:  $\pm 1.5\%$ F.S. < standard > ,  $\pm 1.0\%$ F.S. < option >

## 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:  $\pm 1.0\%$ 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:  $\pm 1.0\%$ F.S.

## 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.

## Industrial Infrared Thermometer



AT8880

Adopts non-contact temperature measurement, which ensuring safety, accuracy and fast measurement on target temperature. It have been applied in mechanical, chemical, ceramic, light industry, food, metallurgy, electrical and heat treatment industry. Suitable for high temperature, hazardous objects surface temperature measurement which are hard to close.

▼ Distance to spot ratio: 16:1, 50:1, 80:1; switchable three sections

▼ Temperature range: Min.-50°C, Max.+1100°C

▼ Display: 4-digit LCD, backlight on/off; resolution: 0.1°C, 0.1°F

▼ Infrared set: Two sets

▼ Screen size: 24mm\*24mm

▼ Power supply: 9V battery

▼ Accuracy: ±2°C, ±2%F.S.

## Diaphragm Seal

### Threaded Flush Diaphragm (High Pressure Type)



DS132H ▼ Accuracy: ±1.6%F.S.

Suitable for corrosion and low crystallinity fluids, applicable to use in petrochemical plants, chemical plants, paper mills, sewage treatment, dye coatings, etc.

▼ Diaphragm outer diameter: Ø17mm: 1/2" male thread, 22mm: 3/4" male thread, 25mm: 1" male thread, 40mm: 1-1/2" male thread

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

▼ Connection type: BSP, NPT

### Single Flange Diaphragm (General Type)



DS300

Suitable for corrosive, acidic, crystalline, viscous, high temperature, sewage, heavy oil, concrete, impurities and other fluids, suitable for use in petrochemical plants, chemical plants, paper mills, sewage treatment, dye coatings and other places.

▼ Structure: All-welded type, single flange

▼ Liquid-filling: Glycerin, silicon oil

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

▼ Protection level: IP68

## All Weled Diaphragm (Threaded type)



DS170(W)

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" , 1"
- ▼ Connection type: BSPT, NPT, PF
- ▼ Pressure range: Min. 1bar, Max. 60bar
- ▼ Protection level: IP68

## Accessory

### Thermowell



- ▼ Structure: Welded, all-in-one
- ▼ Material: copper, SS304, SS316
- ▼ Spec.: inner: 1/4", outer: 1/2"  
inner: 1/2", outer: 1/2"
- ▼ Length include male thread:  
60mm, 80mm, 130mm
- <Special spec. are 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>

### 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>

### Armored capillary



- ▼ Material: Inner copper outer stainless steel, both inner and outer stainless steel
- ▼ Length: 0.5 M ~15 M available made-to-order
- ▼ Connection: 1/4"; 3/8"; 1/2"  
PT, NPT, PF male/female thread
- <Special spec. are available made-to-order>



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

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