RV INSTRUMENTS

Precio Favorable de la venta caliente y...

De acero inoxidable manómetro glicerina d...

Manómetro lleno de líquido, manómetro...

Manómetro de presión de gas acetileno, caja...

Medidor de presión lleno de líquido, carca...

Patent qualification certificate

INSTRUMENTS

Level measurement | IP68 protection | Easy to install | Good value for money

Detail control | Precise measurement | Rich in variety

Ultrasonic/liquid level meter

Detail control | Unlimited medium

Non-contact measurement

- Flange welding

- Temperature compensation devices

- Retest equipment

- Aging test equipment

Chemical industry | Hydraulic system | Hydraulic system | defense-available

INSTRUMENTS

01 『Compact pressure/differential pressure transmitter』

SHT-2166 pressure transmitter uses diffused silicon core as the sensitive element, the selection of intelligent digital circuit, the overall performance is stable and reliable, with very high shock resistance and impact resistance, can be long-distance output. Easy to install, suitable for gas, liquid, steam pressure measurement and control.

Chemical industry | Hydraulic system | Hydraulic system | Environmental monitoring

Product characteristics

- High precision, good stability
- Wide range coverage
- No moving parts, high reliability, long service life
- It is not affected by the mass of the measured medium
- Stainless steel shell, protection class IP65

Performance parameter

Power supply:12 ~ 36VDC/5VDC
Ambient temperature: -10℃ ~ 80℃
Relative humidity: 0 ~ 90%
Medium temperature: -10℃ ~ 80℃
Overload: 150%
Pressure form: gauge pressure, absolute pressure, negative pressure
Accuracy class: 0.1%, 0.25%, 0.5%
Long-term stability: ±0.2%/ year
Note: High temperature accessories should be selected when the medium temperature exceeds 70℃.

Compact differential pressure transmitter
Model: SHT-2166-DP
Measuring range:0 ~ 3.5MPa
Output: 4 ~ 20mA, 0 ~ 10VDC, 0 ~ 5VDC, 0.5 ~ 4.5VDC, RS485

SHT-2166 pressure transmitter uses diffused silicon core as the sensitive element, the selection of intelligent digital circuit, the overall performance is stable and reliable, with very high shock resistance and impact resistance, can be long-distance output. Easy to install, suitable for gas, liquid, steam pressure measurement and control.

Compact Hersman
Model: SHT-2166-H
Measuring range:
-100KPa~0~100MPa
Output: 4 ~ 20mA, 0 ~ 10VDC, 0 ~ 5VDC, 0.5 ~ 4.5VDC, RS485
Thread: M20*1.5, G1/2
(can be customized)

Compact sanitary pressure transmitter
Model: SHT-2166-ZW
Measuring range:0 ~ 3.5MPa
Output: 4 ~ 20mA, 0 ~ 10VDC, 0 ~ 5VDC, 0.5 ~ 4.5VDC, RS485
Thread: φ50.5mm (customizable)

Compact Hersman digital display
Model: SHT-2166-X
Measuring range:
-100KPa ~ 0 ~ 100MPa
Output: 4 ~ 20mA
Thread: M20*1.5, G1/2
(can be customized)

Wind pressure
Model: SHT-2166-F
Measuring range:
-100KPa ~ 0 ~ 100KPa
Output: 4 ~ 20mA, 0.5 ~ 4.5VDC
Thread: φ8

INSTRUMENTS

Compact high temperature pressure transmitter

Model: SHT-2166-G
Measuring range:
-100KPa ~ 0 ~ 25MPa
Output: 4 ~ 20mA, 0 ~ 10VDC,
0 ~ 5VDC, 0.5 ~ 4.5VDC, RS485
Thread: M20*1.5, G1/2
(can be customized)

Compact high temperature digital display

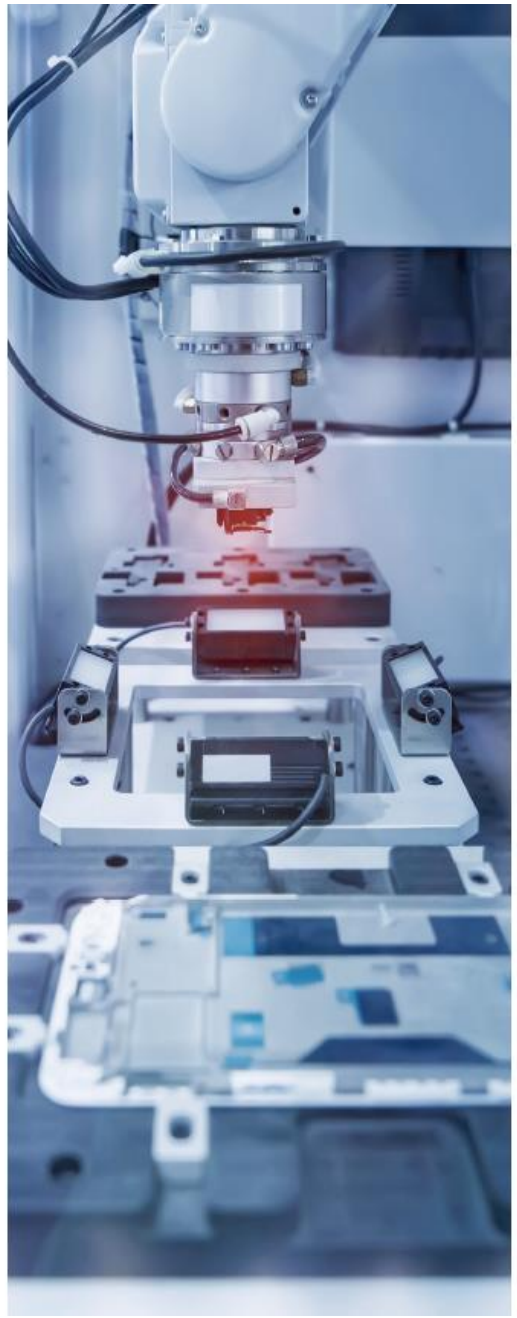
Model: SHT-2166-GX
Measuring range:
-100KPa ~ 0 ~ 25MPa
Output: 4 ~ 20mA, 0 ~ 10VDC,
0 ~ 5VDC, 0.5 ~ 4.5VDC, RS485
Thread: M20*1.5, G1/2
(can be customized)

Compact high temperature digital display

Model: SHT-2166-GH
Measuring range:
-100KPa ~ 0 ~ 25MPa
Output: 4 ~ 20mA, 0 ~ 10VDC,
0 ~ 5VDC, 0.5 ~ 4.5VDC, RS485
Thread: M20*1.5, G1/2
(can be customized)

Compact flush film

Model: SHT-2166-Q
Measuring range:
-100KPa ~ 0 ~ 60MPa
Output: 4 ~ 20mA, 0 ~ 10VDC,
0 ~ 5VDC, 0.5 ~ 4.5VDC, RS485
Thread: M20*1.5, G1/2
(can be customized)



Compact strain gauge flush film

Model: SHT-2166-YP
Measuring range:
0 ~ 10MPa~ 100MPa
Output: 4 ~ 20mA
Thread: M20*1.5, G1/2

Compact aviation plug

Model: SHT-2166-K
Measuring range:
-100KPa ~ 0 ~ 100MPa
Output: 4 ~ 20mA, 0 ~ 10VDC,
0 ~ 5VDC, 0.5 ~ 4.5VDC, RS485
Thread: M20*1.5, G1/2
(can be customized)

Compact pressure sensor

Model: SHT-2166-C
Measuring range:0 ~ 100MPa
Output: ≥70m VDC
Power supply: 1.5m AD
Thread: M20*1.5, G1/2
(can be customized)

Compact explosion-proof

Model: SHT-2166-EX
Measuring range:
-100KPa ~ 0 ~ 100MPa
Output: 4 ~ 20mA, 0 ~ 10VDC,
0 ~ 5VDC, 0.5 ~ 4.5VDC, RS485
Thread: M20*1.5, G1/2
(can be customized)

INSTRUMENTS

Compact pressure transmitter
Model: SHT-2166-J
Measuring range:
-100KPa ~ 0 ~ 100MPa
Output: 4 ~ 20mA, 0.5 ~ 4.5VDC
Thread: M20*1.5, G1/4
(can be customized)

Compact strain gauge
Model: SHT-2166-Y
Measuring range: 0 ~ 100MPa
Output: 4 ~ 20mA, 0 ~ 10VDC,
0 ~ 5VDC, 0.5 ~ 4.5VDC, RS485
Thread: M20*1.5, G1/2
(can be customized)

Compact waterproof outlet
Model: SHT-2166-Z
Measuring range:
-100KPa ~ 0 ~ 100MPa
Output: 4 ~ 20mA, 0 ~ 10VDC,
0 ~ 5VDC, 0.5 ~ 4.5VDC, RS485
Thread: M20*1.5, G1/2
(can be customized)

Compact high-temperature outlet
Model: SHT-2166-GZ
Measuring range:
-100KPa ~ 0 ~ 25MPa
Output: 4 ~ 20mA, 0 ~ 10VDC,
0 ~ 5VDC, 0.5 ~ 4.5VDC, RS485
Thread: M20*1.5, G1/2
(can be customized)

『Model 2188 pressure/differential pressure transmitter』

SHT-2188 pressure transmitter adopts diffused silicon core as the sensitive element, adopts intelligent digital circuit, the overall performance is stable and reliable, and can be output at a long distance. Easy to install, suitable for gas, liquid, steam pressure measurement and control.

Product characteristics

- High precision, good stability
- Wide range coverage
- No moving parts, high reliability, long service lifee
- It is not affected by the mass of the measured medium
- Stainless steel shell, protection class IP67

Performance parameter

Power supply: 12~36VDC
Ambient temperature: -30℃~80℃
Medium temperature: -10℃~80℃
Relative humidity: 0~90%
Overload: 150%
Pressure form: gauge pressure, absolute pressure, negative pressure
Accuracy class: 0.1%、0.25%、0.5%
Long-term stability: ±0.2%/年

Note: High temperature accessories should be selected when the medium temperature exceeds 70℃.

Chemical industry | Hydraulic system | Hydraulic system | defense-available

INSTRUMENTS

Model 2188 digital pressure transmitter

Model: SHT-2188
Measuring range:
-100KPa ~ 0 ~ 100MPa
Output: 4 ~ 20mA, 0 ~ 10VDC,
0 ~ 5VDC, 4 ~ 20mA+HART, RS485
Thread: M20*1.5, G1/2
(can be customized)

Model 2188 digital differential pressure transmitter

Model: SHT-2188-DP
Measuring range:0 ~ 3.5MPa
Output: 4 ~ 20mA, 0 ~ 10VDC,
0 ~ 5VDC, 4 ~ 20mA+HART, RS485

Health type 2188

Model: SHT-2188-W
Measuring range:0 ~ 3.5MPa
Output: 4 ~ 20mA, 0 ~ 10VDC,
0 ~ 5VDC, 4 ~ 20mA+HART, RS485
Connection method: φ50.5mm
(customizable)

Model 2188 flush film type

Model: SHT-2188-Q
Measuring range:-100KPa ~ 0 ~ 60MPa
Output: 4 ~ 20mA, 0 ~ 10VDC,
0 ~ 5VDC, 4 ~ 20mA+HART, RS485
Thread: M20*1.5, G1/2
(can be customized)

Type 2188 flange diaphragm type

Model: SHT-2188-FL
Measuring range:-100KPa ~ 0 ~ 16MPa
Output: 4 ~ 20mA, 0 ~ 10VDC,
0 ~ 5VDC, 4 ~ 20mA+HART, RS48
Connection mode: DN25; DN50 (customizable)
Diaphragm material: 316L, HC,
tantalum, Monel, tetrafluorid

Model 2188 pressure controller

Model: SHT-2188-EX
Measuring range:-100KPa ~ 0 ~ 100MPa
Output: 4 ~ 20mA + switch quantity
(standard 2, optional 5)
Thread: M20*1.5, G1/2 (can be customized)

INSTRUMENTS

Model 2188 high temperature model

Model: SHT-2188-G

Measuring range:

-100KPa ~ 0 ~ 25MPa

Output: 4 ~ 20mA, 0 ~ 10VDC,

0 ~ 5VDC, 4 ~ 20mA+HART, RS485

Thread: M20*1.5, G1/2

(can be customized)

Type 2188 split pressure sensor

Model: SHT-2188-FF

Measuring range:

-100KPa ~ 0 ~ 100MPa

Output: 4 ~ 20mA, 0 ~ 10VDC,

0 ~ 5VDC, 4 ~ 20mA+HART, RS485

Thread: M20*1.5, G1/2

(can be customized)

03 Pressure gauge series

Stainless steel pressure gauge

Model: SHTYN-2188

precision: 2.5%; 1.6%

Battery operated pressure gauge

Model: SHT-2166-D
Measuring range:
-100KPa ~ 0 ~ 1000MPa
precision: 0.5%
Thread: M20*1.5, G1/2
(can be customized)

Stainless steel top display pressuretransmitter

Model: SHT-2166-DX
Measuring range:
-100KPa ~ 0 ~ 1000MPa
Output:4~20mA, 0~10VDC,
0~5VDC,0.5 ~ 4.5VDC,
1~5VDC

Intelligent digital switch pressure gauge

Model: SHT-2166-XM
Measuring range:
-100KPa ~ 0 ~ 100MPa
Output:4 ~ 20mA
Thread: M20*1.5, G1/2

INSTRUMENTS

04 Liquid level transmitter

SHT-2126 Liquid level transmitter transmitter adopts diffused siliconcore as the sensitive element, adopts intelligent digital circuit, the overall performance is stable and reliable, and can be output at a long distance. Easy to install, suitable for liquid level measurement and control.

Level measurement | IP68 protection | Easy to install | Good value for money

Product characteristics

- High precision
- Good stability
- Wide range coverage
- No moving parts, high reliability, long service life
- Stainless steel shell, protection class IP68

Performance parameter

Power supply: 12～36VDC

Ambient temperature: -30℃～80℃

Medium temperature: -10℃ ～ 80℃

Relative humidity: 0 ～ 90%

Overload: 150%

Pressure form: gauge pressure

Accuracy class: 0.1%, 0.25%, 0.5%

Long-term stability: ±0.2%/ year

Split digital display type input liquid level transmitter

Model: SHT-2126-X

Measuring range:0~200m~2000m

Output: 4 ~ 20mA, RS485,

4 ~ 20mA+HART, 4 ~ 20mA+485

Thread: G1

Flange connection can be added on this basis

Split drop diaphragm plug proof level gauge

Model: SHT-2126-GM

Measuring range: 0 ~ 200m

Output: 4 ~ 20mA, RS485

4 ~ 20mA+HART, 4 ~ 20mA+485

One type static pressure level gauge

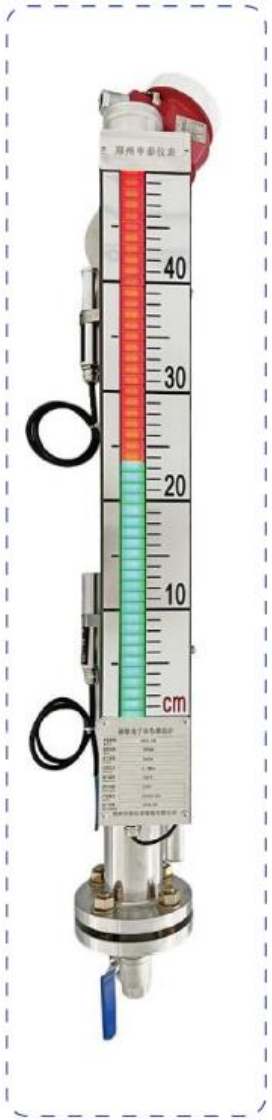
Model: SHT-2126-Y

Measuring range: 0 ~ 200m ~ 2000m

Output: 4 ~ 20mA, 0 ~ 10VDC,

0 ~ 5VDC, 0.5 ~ 4.5VDC, RS485

INSTRUMENTS



Magnetic flip electronic liquid levelmeter

Measuring range: 0~6000mm

Measurement accuracy: ±10mm

Signal output: 4 ~ 20mA,switching quantity

Power supply: 220VAC

Working pressure: 0~1.6MPa~10MPa

Operating temperature: -40~420℃

Medium density: ≥0.5g/ cm3

Process connection: flange DN20~DN50

Liquid material: 304,316L

Lining: PTFE, PP

Capillary type split digital display submersible

Model: SHT-2126-M

Measuring range: 0 ~ 10米

Output: 4 ~ 20mA 、0 ~ 10VDC、

0~5VDC 、4 ~ 20mA+HART、RS485

Thread: G1

Flange connection can be added on this basis

Tetrafluorotype split type input level meter

Model: SHT-2126-SF

Measuring range: 0 ~ 200m

Output: 4 ~ 20mA, 0 ~ 10VDC,

0 ~ 5VDC, 0.5 ~ 4.5VDC, RS485

INSTRUMENTS

05 Monocrystalline silicon intelligent pressure/differential pressure

Detail control | Precise measurement | Rich in variety

SSHT-3051 series differential pressure/pressure/level transmitter can be used in petrochemical, metallurgy, electric power, food and medicine, paper making, textile and other industrial sectors, used to detect the differential pressure, pressure, level, density and other parameters of the fluid, and can also be used to measure flow. It converts the measured signal into 4 ~ 20mA VDC and transmits it to the display, calculation, adjustment or control instrument, which can be composed of various automatic control systems.

Product characteristics

- Two-wire system, 4 ~ 20mA output
- Parts interchangeability, good versatility, durable
- Easy installation, wide range of applications, outdoor, explosion-proof, high temperature andstrong corrosion environment can be
- Can modify the range, decimal number, unit name, high and low pressure exchange, restore factory Settings
- Comply with HART protocol

Performance parameter

Accuracy class:0.05%; 0.075%; 0.25%

Long-term stability:±0.2%/year

Single flange pressure/level transmitter

Model: SHT-3051LT

Measuring range: 0 ~ 6KPa ~ 10MPa

Output: 4 ~ 20mA, 4 ~ 20mA+Hart

Diaphragm material: 316L, HC, tantalum, Monel, tetrafluoride

Connection mode: DN50, DN80 (customizable)

Medium temperature: 0-150-350℃

Note: Viscous medium and easy crystallizing medium can be inserted into the cylinder

Double flanged pressure/level transmitter

Model: SHT-3051DP-SF

Measuring range: 0 ~ 6KPa ~ 4MPa

Output: 4 ~ 20mA, 4 ~ 20mA+Hart

Diaphragm material: 316L, HC, tantalum, Monel, tetrafluoride

Connection mode: DN50, DN80 (customizable)

Medium temperature: 0-150-350℃

INSTRUMENTS

Monocrystalline silicon intelligent pressure/level transmitter

Model: SHT-3051TG

Measuring range: -100KPa ~ 0 ~ 40MPa

Output: 4 ~ 20mA, 4 ~ 20mA+HART

Thread: M20*1.5, G1/2 (can be customized)

Accuracy: 0.075%

Single flange capillary remote pressure/level transmitter

Model: SHT-3051LTY

Measuring range: 0 ~ 10KPa ~ 16MPa

Output: 4 ~ 20mA, 4 ~ 20mA+HART

Diaphragm material: 316L, HC, tantalum, Monel, tetrafluoride

Connection mode: DN50, DN80 (customizable)

Medium temperature: 0-150-350℃

Side-mounted flange pressure/level transmitter

Model: SHT-3051LTT

Measuring range: 0 ~ 10KPa ~ 4MPa (can be customized)

Output: 4 ~ 20mA, 4 ~ 20mA+Hart

Diaphragm material: 316L, HC, tantalum,Monel, tetrafluoride

Connection mode: DN50, DN80 (customizable)

Medium temperature: 0-150-350℃

Monocrystalline silicon intelligent differential pressure/level transmitter

Model: SHT-3051DP

Measuring range: 0 ~ 1.5MPa ~ 30MPa

Output: 4 ~ 20mA, 4 ~ 20mA+HART

Accuracy: 0.075%

Monocrystalline silicon sanitary pressure/level transmitter

Model: SHT-3051LTW

Measuring range: 0 ~ 10KPa ~ 3.5MPa

Output: 4 ~ 20mA, 4 ~ 20mA+Hart

Diaphragm material: 316L, HC, tantalum, Monel, tetrafluoride

Connection mode: DN50, DN80 (customizable)

Medium temperature: 0-150-350℃

INSTRUMENTS

06 Temperature transmitter

PT100: -200~500℃

K: 0~1300℃

S: 0~1600℃

Adapt to high and low temperature environment

Various styles

Intelligent and efficient

Accurate temperature measurement

Thermocouple temperaturetransmitter SHT-WZP

Graduated mark: PT100 / K / S

Output: 0-10VDC、4 ~ 20mA、4 ~ 20mA+Hart

Measuring range: 0~1300℃

Explosion-proof thermocouple temperature transmitter SHT-WZP-EX

Graduated mark: PT100 / K / S

Measuring range: 0~1300℃

Thermocouple temperature transmitter SHT-WF

Graduated mark: PT100 / K / S

Measuring range: 0~1600℃

Bimetallic Thermometer SHT-WPS

Measuring range: 0~500℃

07 Flowmeter Series

A flowmeter is an instrument used to measure the flow rate of fluids (including liquids, gases and steam). It plays a vital role in many fields such as industrial production, energy management and environmental monitoring. There are many types of flowmeters, and each type has its specific application scenario and working principle.

Based on Faraday's law of electromagnetic induction, the flow rate is determined by measuring the induced voltage generated when a conducting fluid flows in a magnetic field. Suitable for all kinds of conductive liquid, such as water, alkali solution, etc.

Electromagnetic flowmeter

Instrument diameter: DN10 ~ DN2000

Withstand pressure: 0 ~ 1.6Mpa ~ 42Mpa

Dielectric conductivity: > 5u s/cm

Measuring range: 50 ~ 250M3/H

Output signal: 4 ~ 20Ma; HART; RS485

Power supply voltage:

220V/24VDC/12VDC/3.6VDC/battery

Explosion-proof display: Exd II CT6 Gb

Protection class: IP65/IP68

Electrode material: molybdenum stainless steel, titanium, Hastelloy B,Hastelloy C, tantalum and special materials

Lining material: Neoprene, polyurethane and teflon, High temperature rubber, F46, mesh PFA

Structure form: one type; Fractal type

INSTRUMENTS

Based on the Karman vortex street principle, the flow rate is determined by measuring the vortex frequency generated when the fluid flows through an obstacle. Suitable for gas, steam and liquid flow measurement.

Vortex flowmeter

Instrument diameter: DN15 ~ DN300

Withstand pressure: 0 ~ 1.6Mpa ~ 4Mpa

Output signal: pulse/RS485;4~20Ma;4~20Ma+HART

Power supply voltage: 24VDC/3.6VDC

Explosion-proof display: Exd II CT6 Gb

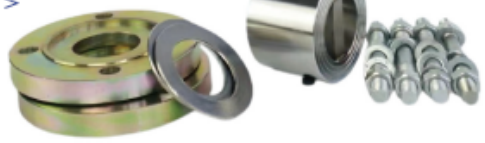
Protection class: IP65

Operating temperature: -40℃ ~ 200℃

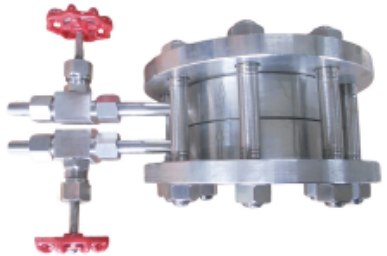
Electrical interface: M20*1.5; NPT1/2

Structure: flange, clamp, insert

Sandwich vortex flowmeter



Orifice flowmeter



Working pressure: -0.1MPa~1.6MPa~42Mpa

Operating temperature: -40~420℃

Nominal diameter: DN5 ~ DN2600

Liquid material: 304,316L

Connection mode: French connection; Welded joint

Turbine flowmeter

Accuracy class: ±1%, ±0.5%

Range ratio: 1:10

Sensor material: 304 stainless steel, 316L stainless steel, etc

Signal output function: pulse signal; RS485; 4~20mA; 4~20mA+HART ; 0-10VDC

Communication output functions: RS485 communication, HART protocol, etc

Medium temperature: -20°C ~ 100°C

Protection level: IP65

INSTRUMENTS

Ultrasonic/liquid level meter

Detail control

Unlimited medium

Non-contact measurement

Ultrasonic/liquid level meter is a kind of instrument that uses ultrasonic technology to measure liquid level. It is mainly controlled by a single chip computer and can detect the liquid position without contact. The ultrasonic level meter works by emitting ultrasonic pulses, which are reflected back after hitting the liquid level and are picked up by the same sensor. By measuring the time difference between the transmission and reception of the sound wave, the distance from the sensor to the liquid surface can be calculated, and the height of the liquid level can be obtained.

Explosion-proof ultrasonic

Range: 0 ~ 15m (customizable)

Blind area: 0.35 m ~ 0.6 m

Ranging accuracy: ±0.5%

Output signal: 4~20mA(two-wire)

4~20mA+RS485+two switching quantities

Supply voltage: 24VDC

Protection class: IP65

Explosion-proof class: Exd IICT6Gb

Monotype ultrasound

Range: 0 ~ 15m (customizable)

Blind area: 0.35 m ~ 0.6 m

Ranging accuracy: ±0.5%

Output signal: 4 ~ 20mA; RS485

4~20mA+RS485+two switching quantities

Supply voltage: 24VDC/220VAC

INSTRUMENTS

09 Radar object/ level gauge

Radar object/liquid level meter is an instrument that uses radar technology to measure the horizontal height (level) of solid or liquid materials in a container or storage tank. It is widely used in chemical, petroleum, power, water treatment, food processing and other industries. The main advantages of radar level meter include non-contact measurement, high accuracy, good adaptability and reliability.

- Exquisite details
- A variety of styles
- Factory direct sales
- Support customization

Threaded connection type radar fluid/level meter

Flange connection type radar liquid/level meter

Measuring range: 0-30-70m
Signal output: 4-20mA/HART/RS485
Power supply: 2-wire 24VDC / 4-wire 220VAC
Case material: Aluminum alloy/stainless steel 304
Cable inlet: M20*1.5
Protection level: IP67

10 Intelligent on-line densitometer

Pipe type densitometer SHT-3051-MG

Performance characteristics

Accuracy level: 0.002g/cm3
Density range: 0-3g/cm3
Output: 4-20mA+Hart
Power Supply: 12-36VDC
Resolution: 0.001g/cm3
Ambient temperature: -30 ~ 80℃
Medium temperature: -40~150~350℃
Connection: DN50,DN80 (customizable)
Diaphragm material: 316L, HC, tantalum, tetrafluoride

Application field

Dairy industry
Mining; Food processing;
Pulp and paper industry;
Beverage processing; Chemical Industry;
Oil refining; petrification

INSTRUMENTS

Pressure unit conversion table

	Pa	Kpa	Mpa	bar	mbar	kgf/cm²	cmH_2O	mmH_2O	mmHg	psi
Pa	1	10^{-3}	10^{-6}	10^{-5}	10^{-2}	10.2×10^{-6}	1.02×10^{-3}	101.971×10^{-3}	7.5×10^{-3}	0.145×10^{-3}
Kpa	10^{3}	1	10^{-3}	10^{-2}	10	10.2×10^{-3}	10.2	101.97	7.5	0.145
Mpa	10^{6}	10^{3}	1	10	10^{4}	10.2	1.02×10^{3}	101.971×10^{3}	7.5×10^{3}	0.145×10^{3}
bar	10^{5}	10^{2}	10^{-1}	1	10^{3}	1.02	1.02×10^{3}	10.2×10^{3}	750.06	14.5
mbar	10^{2}	10^{-1}	10^{-4}	10	1	1.02×10^{-3}	1.02	10.2	0.75	14.5×10^{-3}
kgf/cm²	93066.5	98.07	98.07×10^{-3}	0.98	980.67	1	1000	10.000	735.56	14,22
cmH_2O	98.06	98.07×10^{3}	98.07×10^{-6}	0.98×10^{-3}	0.98	10^{-3}	1	10	0.74	$14,22\times10^{-3}$
mmH_2O	9.806	9.807×10^{-3}	9.807×10^{-6}	98.07×10^{-6}	98.07×10^{-3}	10^{-4}	0.1	1	73.56×10^{-3}	1.42×10^{-3}
mmHg	133.32	133.32×10^{-3}	133.32×10^{-6}	1.33×10^{-3}	1.33	1.36×10^{-3}	1.36	13.6	1	19.34×10^{-3}
psi	6894.76	6.89	6.89×10^{-3}	68.95×10^{-3}	68.95	70.31×10^{-3}	70.31	703.07	51.71	1

Side-mounted densitometer
SHT-3051-MC

MANOMETROS

INSTRUMENTS

Bourdon tube

Applications
Used for pneumatic systems
Compressors, compressed air system
Suitable for fluid medium which does not clog connection port or corrode copper alloy.
Case: black steel (black painting steel, chromed steel, ABS)
Ring: no (black steel, black painting steel, chromed steel)
Window: acrylic (glass, acrylic glass, polycarbonate)
Socket & Connection: brass
Movement: semi-brass (complete brass)
Bourdon tube: copper alloy (brass)
Pointer and dial: aluminum
Rang: vacuum, compound 0 to 6000 psi accuracy
Class: F±3/2/3%(ASME B40. 100 Grade B)
KI 2.5 FOR 1 1/2", 2", KI 1.6 FOR 2 1/2", 3", 4"
Operating temperature
Ambient: -40℉ to 140℉ (-40℃ TO 60℃)


111AL


111AB


111AR


111AV


111AU


111BL


111BB


111CL


111CB


111DL


111CL-M

Available model for the size						
Model	1.5"(40mm)	2"(50mm)	2.5"(63mm)	3"(75mm)	4"(100mm)	6"(150mm)
111AL	•	•	•	•	•	•
111AB	•	•	•	•	•	
111AR	•	•	•	•	•	
111AU	•	•	•	•	•	
111AV	•	•	•	•	•	
111BL	•	•	•	•	•	
111BB	•	•	•	•	•	
111CL	•	•	•	•	•	
111CB	•	•	•	•	•	
111DL	•	•	•	•	•	
111CL-M	•	•	•	•	•	

●:Existed model

Bourdon tube

Applications
Used for hydraulic and pneumatic systems
Compressors, compressed air system
Suitable for fluid medium which does not clog connection port or corrode copper alloy
Case: stainless steel (stainless steel)
Ring: no (stainless steel)
Window: acrylic (glass, acrylic glass, polycarbonate)
Socket & Connection: brass, (brass chromed)
Movement: semi-brass (complete brass)
Bourdon tube: copper alloy (brass)
Pointer and dial: aluminum
Rang: vacuum, compound 0 to 6000 psi
Accuracy Class: F±3/2/3%(ASME B40. 100 Grade B)
KI 2. 5 FOR 1 1/2", 2", KI 1.6 FOR 2 1/2", 3", 4".
Operating temperature
Ambient: -40℉ to 140℉ (-40℃ TO 60℃)
Media: 140℉ (+60℃) Maximum


112AL


112AB


112BL


112BB


112AU


112DL


112DB

Available model for the size						
Model	1.5"(40mm)	2"(50mm)	2.5"(63mm)	3"(75mm)	4"(100mm)	6"(150mm)
112AL	•	•	•	•	•	•
112AB	•	•	•	•	•	
112AU	•	•	•	•	•	
112BL	•	•	•	•	•	
112BB	•	•	•	•	•	
112DL	•	•	•	•	•	
112DB	•	•	•	•	•	

■:Existed model

INSTRUMENTS

Dry Gauge
All stainless steel
Type 113

Mechanical Pressure Gauge

Bourdon tube

Applications
Used for hydraulic and pneumatic systems
Compressors, compressed air system
Suitable for fluid medium which does not clog connection port or stainless steel
Case: stainless steel (stainless steel)
Ring: no (stainless steel)
Window: acrylic (glass, acrylic glass, polycarbonate)
Socket & Connection: stainless steel, (brass chromed)
Movement: stainless steel
Bourdon tube: stainless steel
Pointer and dial: aluminum
Rang: vacuum, compound 0 to 10000 psi
Accuracy Class: F±3/2/3%(ASME B40. 100 Grade B)
KI 2. 5 FOR 1 1/2", 2", KI 1.6 FOR 2 1/2", 3", 4"
Operating temperature
Ambient: -67°F to 212°F (-55°C TO 100°C)
Media: -67°F (+176°C)(-55°C TO 80°C)


113AL


113AB


113BL


113BB


113AU


113DL


113DB

Available model for the size						
Model	1. 5"(40mm)	2"(50mm)	2. 5"(63mm)	3"(75mm)	4"(100mm)	6"(150mm)
113AL	•	•	•	•	•	
113AB	•	•	•	•	•	
113AU	•	•	•	•	•	
113BL	•	•	•	•	•	
113BB	•	•	•	•	•	
113DL	•	•	•	•	•	
113DB		•	•	•	•	

● Existed model

Dry Gauge
High Quality
Type 114

Mechanical Pressure Gauge

Bourdon tube

Applications
Used for hydraulic and pneumatic systems
Compressors,compressed air system
Suitable for fluid medium which does not clog connection port or brass
Special use for stable and long life .
Case: black steel
Ring: black steel
Window: acrylic(glass, acrylic glass, polycarbonate)
Socket & Connection: brass, (brass chromed)
Movement: brass
Bourdon tube: copper alloy
Pointer and dial: aluminum
Rang: vacuum, compound 0 to 6000 psi
Accuracy: ±1.6% for 63mm.±1.0% for 100mm and 150mm
Operating temperature
Ambient: -40°F to 140°F (-40°C TO 60°C)


114AL

Available model for the size			
Model	2.5"(63mm)	4"(100mm)	6"(150mm)
114AL	•	•	•
114AB	•	•	•

Note:114AB Back connection

Bourdon tube

Applications
Used for hydraulic and pneumatic systems
Compressors, compressed air system
Suitable for fluid medium which does not clog connection port or brass
Used for providing protection from vibration and pulsation.
Case: stainless steel
Ring: stainless steel
Window: polycarbonate(glass).
Socket & Connection: brass
Movement: semi-brass(complete brass)
Bourdon tube: copper alloy(brass)
Pointer and dial: aluminum
Liquid: glycerin, silicone
Rang: vacuum, compound 0 to 6000 psi
Accuracy Class: F±3/2/3%(ASME B40. 100 Grade B)
KI 2. 5 FOR 1 1/2", 2", KI 1.6 FOR 2 1/2", 3", 4"
Operating temperature
Ambient: -4°F to 140°F (-20°C TO +60°C)
Media: 140°F (+60°C)


115AL

RV INSTRUMENTS

Liquid filled gauge
Normal use
Type 115

Mechanical Pressure Gauge

Bourdon tube


115AB


115AV


115AR


115BL


115BB


115CL


115CB


115DL


115DB


115DV


115EL


115AU2


115AU3


115CU1

Available model for the size

Model	1.5"(40mm)	2"(50mm)	2.5"(63mm)	3"(75mm)	4"(100mm)	6"(150mm)
115AL	•	•	•	•	•	
115AB	•	•	•	•	•	
115AV	•	•	•	•	•	
115AR	•	•	•	•	•	
115AU1	•	•	•	•	•	
115AU2	•	•	•	•	•	
115AU3		•	•		•	
115BL	•	•	•	•	•	
115BB	•	•	•	•	•	
115BV	•	•	•	•	•	
115BR	•	•	•	•	•	
115BU1	•	•	•	•	•	
115BU2	•	•	•	•	•	
115BU3		•	•		•	•
115CL	•	•	•	•	•	
115CB	•	•	•	•	•	
115CV	•	•	•	•	•	
115CR	•	•	•	•	•	
115CU1	•	•	•	•	•	
115CU2	•	•	•	•	•	
115CU3		•	•		•	
115DL	•	•	•	•	•	
115DB	•	•	•	•	•	
115DV	•	•	•	•	•	
115DR	•	•	•	•	•	
115DU1	•	•	•	•	•	
115DU2	•	•	•	•	•	
115DU3		•	•			

Liquid filled gauge
All stainless steel
Type 116

Mechanical Pressure Gauge

Bourdon tube

Applications
Used for hydraulic and pneumatic systems
Compressors, compressed air system
Suitable for fluid medium which does not clog connection port or stainless steel
Used for providing protection from vibration and pulsation.
Case: stainless steel
Ring: stainless steel
Window: polycarbonate (glass)
Socket & Connection: stainless steel
Movement: stainless steel
Bourdon tube: stainless steel
Pointer and dial: aluminum
Liquid: glycerin, silicone
Rang: vacuum, compound 0 to 15000 psi accuracy
Class: F±3/2/3%(ASME B40. 100 Grade B)
KI 2. 5 FOR 1 1/2", 2", KI 1. 6 FOR 2 1/2", 3", 4"
Operating temperature
Ambient: -4°F to 140°F (-20°C TO + 60°C)
Media: 140°F (+ 60°C)


116AL


116AB


116BL


116BB


116AV


116CR


116CL


116CB


116CV


116AU1


116AU2

Available model for the size

Model	1.5"(40mm)	2"(50mm)	2.5"(63mm)	3"(75mm)	4"(100mm)	6"(150mm)
116AL	•	•	•	•	•	
116AB	•	•	•	•	•	
116AV	•	•	•	•	•	
116AR	•	•	•	•	•	
116AU	•	•	•	•	•	
116BL	•	•	•	•	•	
116BB	•	•	•	•	•	
116BV	•	•	•	•	•	
116BR	•	•	•	•	•	
116CL	•	•	•	•	•	•
116CB	•	•	•	•	•	
116CV	•	•	•	•	•	
115DL	•	•	•	•	•	
115DB	•	•	•	•	•	
115DU	•	•	•	•	•	

●.Existed model

RV INSTRUMENTS

Liquid filled gauge
High Quality
Type 117

Mechanical Pressure Gauge

Bourdon tube

Applications
Used for hydraulic and pneumatic systems
Compressors, compressed air system
Suitable for fluid medium which does not clog connection port or copper alloy
Used for providing protection from vibration and pulsation.
Case: stainless steel
Ring: stainless steel
Window: safety glass (tempered glass, polycarbonate)
Socket & Connection: brass
Movement: brass
Bourdon tube: brass
Pointer and dial: aluminum, adjustable pointer
Liquid: glycerin, silicone
Rang: vacuum, compound 0 to 15000 psi
Accuracy: ±1.6% for 63mm, ±1.0% for 100mm and 150mm
Operating temperature
Ambient:-4°F to 140°F (-20°C TO +60°C)
Media: 140°F (+60°C)


117AL


117AB


117BL


117BB

Available model for the size			
Model	2.5"(63mm)	4"(100mm)	6"(150mm)
117AL	●	●	●
117AB	●	●	●
117AV	●	●	●
117AR	●	●	●
117BL	●	●	●
117BB	●	●	●
117BV	●	●	●
117BR	●	●	●

Liquid filled gauge
All stainless steel,High quality
Type 118

Mechanical Pressure Gauge

Bourdon tube

Applications
Used for Hydraulic and pneumatic systems
Compressors, compressed air system
Suitable for fluid medium which does not clog connection port or stainless steel
Used for providing protection from vibration and pulsation.
Case: stainless steel
Ring: stainless steel
Window: safety glass (tempered glass, polycarbonate)
Socket & Connection: stainless steel
Movement: stainless steel

●: Existed model

Liquid filled gauge
All stainless steel,High quality
Type 118

Mechanical Pressure Gauge

Bourdon tube

Bourdon tube: stainless steel
Pointer and dial: aluminum, adjustable pointer
Liquid: glycerin, silicone
Rang: vacuum, compound 0 to 15000 psi
Accuracy: ±1.6% for 63mm, ±1.0% for 100mm and 150mm
Operating temperature
Ambient: -4°F to 140°F (-20°C TO +60°C)
Media: 140°F (+60°C)


118AL


118AB


118BL


118BB

Available model for the size			
Model	2.5"(63mm)	4"(100mm)	6"(150mm)
118AL	●	●	●
118AB	●	●	●
118AV	●	●	●
118AR	●	●	●
118BL			
118BB	●	●	●
118BV			●
118BR	●	●	●

Special application
Type 119

Bourdon tube

Applications
Used for special application

Used for Welding and cutting machine
Oxygen and Acetylene gauge(blow-out)

Available model for the size	
Model	2.5"(63mm)
119AL	●
119AB	●
119OL	●
119OB	●


119OL1
119AL1


119OL2
119AL2


BACKSIDE

●:Existed model

INSTRUMENTS

Special application
Type 119

Mechanical Pressure Gauge

Bourdon tube

Used for ammonia

Available model for the size			
Model	2.5"(63mm)	3"(75mm)	4"(100mm)
119ML	•	•	•
119MB	•	•	•
119MV	•	•	•
119MR	•	•	•
119MU	•	•	•

Bourdon tube

Refrigerator gauge

119RL2

Available model for the size		
Model	2.5"(63mm)	3"(80mm)
119RL1	•	•
119RB1	•	•
119RL2	•	•
119RB2	•	•
119RL3	•	•
119RB3	•	•

Bourdon tube

CNG gauge

Available model for the size		
Model	2"(50mm)	2.5"(63mm)
119CL1	•	•
119CB1	•	•
119CL2	•	•
119CB2	•	•

Bourdon tube

Air testing gauge

Water testing gauge

●: Existed model

Special application
Type 119

Mechanical Pressure Gauge

Bourdon tube

Process gauge

The pressure gauge is applied to the food,crink,refrigeration,petrolchemical processing and so on,and the occasions where both environment and medium are strict.The case is solid with knock down back case and burst disk inside.

Bourdon tube

Thermo-manometer

Available model for the size			
Model	62mm	72mm	80mm
119TL1	•	•	•
119TB2	•	•	•
119TL2	•	•	•
119TB2	•	•	•

Bourdon tube

Pressure gauge spare parts

●: Existed model

INSTRUMENTS

Electrical contact gauge
Type 120

Mechanical Pressure Gauge

Bourdon tube

Applications
Used to measure pressures of various such mediums as non-crystallized liquids or gases without corrosion to copper alloy, and this gauge hase measuring and controlling function,which enables arbitrary setting of upper and/or lower values of pressure control,with it s reliable action,it is widely used supporting device and electromechanical equipments in such industries as petroleum,chemical industry, power station,and metallurgy.
Case：black steel (black painting steel,chromed steel,ABS)
Ring：black steel (black painting steel,chromed steel)
Window：acrylic (polycarbonate)
Socket & Connection：brass
Movement：semi-brass (complete brass)
Tube：copper alloy.
Pointer and dial：aluminum
Rang：±25mbar, minimum pressure.
Accuracy Class：F±3/2/3%(ASME B40.100 Grade B)
KI 2.5 FOR 1 1/2",2",KI 1.6 FOR 2 1/2",3",4"
Voltage：AC380V, DC220V.
Operating temperature
Ambient：-40℉ to 140℉ (-40℃ TO 60℃)
Media：140℉ (+60℃)

120AL

Capsule gauge
Ecnomy
Type 121

Diaphragm

Applications
Used to measure micro pressure and negative pressure of gas that has no corrosion to copper alloy,
Case：black steel (black painting steel,chromed steel)
Ring：no (black steel,black painting steel ,chromed steel)
Window：acrylic (glass,acrylic glass,polycarbonate)
Socket & Connection：brass
Movement：semi-brass (complete brass)
Capsule：copper alloy.
Pointer and dial：aluminum
Rang：±25mbar, minimum pressure.
Accuracy Class：F±3/2/3%(ASME B40.100 Grade B)
KI 2.5 FOR 1 1/2",2",KI1.6 FOR 2 1/2",3",4"
Operating temperature
Ambient：-40℉ to 140℉ (-40℃ TO 60℃)
Media：140℉ (+60℃)

121AL

Available model for the size				
Model	2.5"(63mm)	3"(75mm)	4"(100mm)	6"(150mm)
121AL	●	●	●	●
121AB	●	●	●	●
121AV	●	●	●	●
121AR	●	●	●	●
121AU	●	●	●	●

●:Existed model

Capsule gauge
Normal use (stainless steel case)
Type 122

Mechanical Pressure Gauge

Diaphragm

Applications
Used to measure micro pressure and negative pressure of gas that has no corrosion to copper alloy.
Case：stainless steel (black painting steel,chromed steel,ABS)
Ring：no (black steel,black painting steel,chromed steel)
Window：acrylic (glass,acrylic,glass polycarbonate)
Socket & Connection：brass
Movement：semi-brass (complete brass)
Capsule：copper alloy.
Pointer and dial：aluminum
Rang：±25mbar, minimum pressure.
Accuracy Class：F±3/2/3%(ASME B40.100 Grade B)
KI 2.5 FOR 1 1/2",2",KI 1.6 FOR 2 1/2",3",4"
Operating temperature
Ambient：-40℉ to 140℉ (-40℃ TO 60℃)
Media：140℉ (+60℃)

122AL

122AB

122BU

122BV

Available model for the size				
Model	2.5"(63mm)	3"(75mm)	4"(100mm0)	6"(150mm)
122AL	●	●	●	●
122AB	●	●	●	●
122AV	●	●	●	●
122AR	●	●	●	●
122AU			●	●

Diaphragm

Capsule gauge Spare parts

● Existed model

INSTRUMENTS

Pocket thermometer
Type 211

Mechanical Pressure Gauge

Bimetal

Applications
Used in kitchen,and can pocket by caps with different colors and it is easy to read.
Case: stainless steel
Dial and pointer: aluminum
Stem: stainless steel
Cap of thermometer: ABS
Temperature range: 0-60℃~200℃/108℉ ~ 400℉

Available model for the size					
Model	1"(25mm)	1.3"(33mm)	1.5(38mm)	1.75"(45mm)	2"(51mm)
211AB	●	●	●	●	●

Hot water Thermometer
Type 212

Bimetal

Applications
Used in HVAC industry for hot water lines,boilers and hydraulic,etc
Case: black steel (chromed steel,stainless steel)
Ring: black steel (chromed steel,stainless steel)
Window: glass
Dial and pointer: aluminum
Stem: brass (stainless steel)
Thermowell: brass
Connection: 1/2"NPT (1/2"BSP)
Temperature range: 0-60℃ ~ 120℃/30 - 108℉ ~ 250℉

212AL

Available model for the size				
Model	2"(50mm)	2.5"(63mm)	3"(75mm)	4"(100mm)
212AL	●	●	●	●
212AB	●	●	●	●
212BL	●	●	●	●
212BB	●	●	●	●

●:Existed model

Industry Thermometers
Bimetal
Type 213

Mechanical Pressure Gauge

Bimetal

Applications
This kind of industry bimetal thermometers has a pointer at the center of the screen,which can check the max temperature arising during the day, the pointer is very sensitive to show correct temperature.
Case: 304 stainless steel
Ring: 304 stainless steel
Window: glass
Stem & Connection: stainless steel
Pointer and dial: aluminum
Rang: -40~60℃,-20~60℃,0~120℃,0~150℃、
0~200℃,0~300℃,0~400℃,0~500℃,50~300℃/
-40~160℉ ,0~100℉ , 0~220℉ ,20~240℉ ,25~125℉ ,50~400℉
50~500℉ ,50~600℉ ,50~750℉
Accuracy Class: ±1.5%
Pointer: Adjustable

213AA

Available model for the size						
Model	2"(40mm)	2.5"(50mm)	3"(63mm)	4"(75mm)	5"(100mm0)	6"(150mm)
213AL	●	●	●	●	●	●
213AB	●	●	●	●	●	●
213AA	●	●	●	●	●	●
213BC	●	●	●	●	●	●
213BB	●	●	●	●	●	●
213BA	●	●	●	●	●	●

Bimetal

Thermometer spare parts

●:Existed model

INSTRUMENTS

Capillary thermometer
Type 221

Mechanical Pressure Gauge

Gas filled

Application:
Widely using and almost fit to any temperature indicating application.
And remote reading panel installations
Case：stainless steel
Ring：stainless steel
Window：glass
Dial and pointer：aluminum (pointer can be adjustable)
Movement：brass (stainless steel)
Capillary：copper alloy (stainless steel)
Amour：stainless steel.
Stem：stainless steel
Connection：1/2"NPT (1/2"BSP)(fix or sliding)
Temperature range：-40-60℃~500℃

221AV

Available model for the size					
Model	2"(50mm)	2.5"(63mm)	3"(75mm)	4"(100mm)	6"(150mm)
221AL	●	●	●	●	●
221AB	●	●	●	●	●
221BL	●	●	●	●	●
221BB	●	●	●	●	●
221CL	●	●	●	●	●

Exhaust thermometer
Type 222

Gas filled

Case：stainless steel
Ring：stainless steel
Window：glass
Dial and pointer：aluminum (pointer can be adjustable)
Movement：brass (stainless steel)
Capillary：copper alloy (stainless steel)
Stem：stainless steel
Connection：1/2"NPT (1/2"BSP)(fix or sliding)
Temperature range：-40-60℃~500℃

222AL

Available model for the size		
Model	3"(75mm)	4"(100mm)
222AL	●	●
222AB	●	●
222BL	●	●
222BB	●	●

●:Existed model

V-Shape industry glass thermometer
Type 231

Mechanical Pressure Gau

Glass

Application:
Widely used in ships,pipelines and some heating or cooling facilities,it remains direct and accurate,and more reliable and resistant to vibration.
Case：aluminum die-casting
Insert：Glass.
Thermowell：brass (stainless steel)
Connection：1/2"NPT (1/2"BSP)(fix or sliding)
Temperature range：-40-60℃~500℃

Available model for the size			
Model	110mm	150mm	200mm
231AL	●	●	●
231AB	●	●	●
231BL	●	●	●
231BB	●	●	●
231CL	●	●	●
231CB	●	●	●

Adjustable angle glass thermometer
Type 232

Glass

Case：aluminum die-casting
Insert：Glass.
Thermowell：brass (stainless steel)
connection：1/2"NPT (1/2"BSP)(fix or sliding)
Temperature range：-40-60℃~500℃

Available model for the size		
Model	7"(180mm)	9"(250mm)
232AL	●	●
232AA	●	●

Round glass thermometer with Protective case
Type 233

Glass

Case：brass(stainless steel)
Insert：Glass.
Thermowell：brass(stainless steel)
Connection：1/2"NPT(1/2"BSP)(fix or sliding)
Temperature range：-40-60℃~500℃

●:Existed model

INSTRUMENTS

Sanitary Diaphragm
Pressure Gauge
Type 241

Special Pressure Gauge

Diaphragm

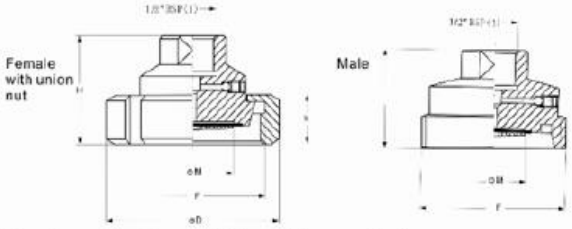
Application:
Media does not directly contact instrument's mesuring system, diaphragm sea does not raise a dead corner or area where residue may be left,universally uesd for sanitary applications.
63(mn2): 98(mm) outside diameter
stainless steel case and internals
Accuracy: 1%,1.5%

Available model for the size		
Model	Φ63	Φ100
241AL	●	●

Sanitary Diaphragm(Threaded process Connection)
Pressure Gauge
Type 242

Threaded process

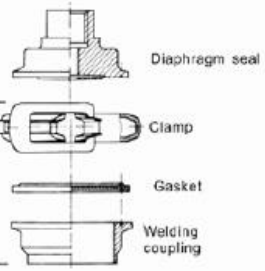
Application:
Media does not directly contact instrument's mesuring system, diaphragm sea does not raise a dead corner or area where residue may be left,universally uesd for sanitary applications.
Model to Europe standard and various standards
DIN;SMS;IDF;APV-RJT



Sanitary Diaphragm(Clamp Connection)
Pressure Gauge
Type 243

Clamp Connection

Clamp connection
Scheme



●:Existed model

Diaphram
Pressure Gauge
Type 251

Special Pressure Gauge

Diaphragm

Application:
Suited for low pressure measurement of high corrosive,vascous media.
Outside diameter: 100,160
Accuracy: 1.5%,2.5%
Range: 1kpa-2.5MPA
Case & Internals material: stainless steel
Diaphram material: SUS304,SUS316,3J

Available model for the size		
Model	Φ100	Φ160
251AL	●	●

Differential
Pressure Gauge
Type 261

Differential

Application:
Are used to measure pressure difference,typical applications include filters,liquid tanks pumps and sterilizing chambers etc.

MODEL: 261AL
Double bourdon system
Differential Pressure Gauge

MODEL: 261AB
High static pressure & low range
Differential Pressure Gauge

●:Existed model

INSTRUMENTS

Safety Pattern
Pressure Gauge
Type 271

Special Pressure Gauge

Safety Pattern

Application:
Are built for maintaining maximum safety when measuring pressure.
Accuracy: 1%
Blow out back,stainless steel safety case design
Wetted part sus 316
Range: -0.1-100MPA
Laminated safety glass

Available model for the size			
Model	Φ63	Φ100	Φ150
261AL	●	●	●

Medical
Pressure Gauge
Type 281

Medical

Application:
For medical service

Available model for the size							
Model	281AL	281AB	281AR	281AU	281AV	281BL	281BB
Available	●	●	●	●	●	●	●

Accessory
For chemical
Type 291

Special Accessory

Chemical Seals


Standard type(without code)

F1 shape flange

F2A Press-on diaphragm

F2B Welded diaphragm

F5A Threaded

F6 Clamp connection

F7 Threaded connection

F8(60 Welded type

Accessory
For chemical
Type 292

Chemical Seals


R1 High pressure radiator

R2 Capillary radiator

R3 High-Tamprature tube

Overpressure protector

One Valve

One Valves With A Bleeding Screw

Two Valves

Syphon

●:Existed model

Absolute
Pressure Gauge
Type 311

Special
Pressure Gauge

Absolute

Application:
Absolute pressure gauge use to watch or measure some vacuum equipments (for example: vacuum packing machine, watch condensation pressure and liquid steam pressure equipment.) which is absolute pressure gauge.

Specification:

- Case Diameter: 100mm
- Seals Diameter: 160,100mm
- Ambience: -20 ~ +60℃
- Range: 0-10/16/25/40/60/100kpa abs
- Accuracy: 1.6

Available model for the size		
Model	Φ 100	Φ 160
301AL	•	•

High quality
Capsule gauge
Type 411

New prodcut

Brief Introduction
Suitable for accurate measuring of the low pressure in vibrative locale.
Technical Specifications
Execntive Standard: JB/T 9274-1999
Instruments Diameter: 100mm; 160mm;
Accuracy Class:100mm; 160mm 1.5%;
(1.6%;2.5%)
Range:6kPa -100 kPa
Protection Class: IP65
Ambient Temperature: -40℃ ~ +60℃
Connection thread: 100、160 outer diameter M20 (M20X1.5) others see the table
Instrument case: SUS304 stainless steel nature color (option: polished case)
Instrument socket: SUS316 nature color (22mm stainless steel square) Socket welded to case

RV INSTRUMENTS

Pressure Unit Conversion Table

Nominal unit	Mpa	kPa	Pa	Psi	0℃mmHg	0℃inHg	15℃mmH$_2$O	15℃inH$_2$O	kgf/cm^2	atm	bar	mbar	Torr
Mpa	1	1000	1000000	145.03725	7500.61682	295.28741	102097.865	4018.75151	10.19718	9.86923	10	10000	7500.61682
kPa	0.001	1	1000	0.14503	7.50061	0.29528	102.04786	4.01875	0.01019	0.00986	0.01	10	7.50061
Pa	0.000001	0.001	1	0.00014	0.0075	0.00029	0.10204	0.00401	0.00001	0.0000098	0.00001	0.01	0.0075
Psi	0.00689	6.89473	6894.78017	1	51.7151	2.03594	703.5976	27.7084	0.0703	0.06801	0.06894	68.9478	51.7151
0℃mmHg	0.00013	0.13332	133.32236	0.01933	1	0.03936	13.60526	0.53578	0.00135	0.00131	0.00133	1.33322	1
0℃inHg	0.00338	3.38653	3386.53074	0.49117	25.40106	1	345.58823	13.60962	0.03453	0.03342	0.03386	33.8653	25.40106
15℃mmH$_2$O	0.0000098	0.00979	9.79932	0.00142	0.0735	0.00289	1	0.03938	0.00009	0.00009	0.00009	0.09799	0.0735
15℃inH$_2$O	0.00024	0.24883	248.83319	0.03609	1.8661	0.07347	25.39292	1	0.00253	0.00245	0.00248	2.48833	1.8664
kgf/cm^2	0.09806	98.06625	98066.2582	14.22326	735.55742	28.95773	10007.4523	394.10392	1	0.96783	0.98066	980.66258	735.55742
atm	0.10132	101.325	101325	14.6959	760	29.92	10340	407.2	1.03323	1	1.01325	1013.25	760
bar	0.1	100	100000	14.50372	750.06168	29.52874	10204.7865	401.87515	1.01971	0.98692	1	1000	750.06168
mbar	0.0001	0.1	100	0.0145	0.75006	0.02952	10.20478	0.40187	0.00101	0.00098	0.001	1	0.75006
Torr	0.00013	0.13332	133.32236	0.01933	1	0.03936	13.60526	0.53578	0.00135	0.00131	0.00133	1.33322	1

INSTRUMENTS

Pressure Transmitter

1 UPB1 General Silicon Pressure Transmitter

Description

Based on piezo-resistive silicon technology, UPB1 silicon pressure transmitter uses isolated stainless steel diaphragm as sensing element. This product is fully tested by computer automatically, and trimmed by laser for zero and sensitivity in a wider temperature range. Its amplifier circuit is built in stainless steel housing, to transform sensor signal into standard output signal. This transmitter features integrated construction, rigid and robust, high measuring accuracy, good long term stability, and is suitable for pressure measurement in general industry applications.

This product is widely used for pressure measurement and control of petroleum, chemical-industry, metallurgy, power station and hydrology, etc.


Hirschmann (Din) Connector


LED Display


Cable(lock nut)


LCD Display


Water-proof Connector

Features

- Wide measuring pressure range:-1...0~0.1...1000bar
- Full stainless steel construction
- Suitable for the measurement of low pressure and vacuum pressure
- Against thunder stroke, against radio-frequency interference
- Anti-corrosion, anti-attrition, anti-impact
- Reversed-polarity, transient current & voltage protection

INSTRUMENTS

8 UPB9 Industrial Pressure Transmitter

Description

UPB9 pressure transmitter uses high quality pressure sensors with isolated stainless steel diaphragm as sensing elements, it is tested by computer automatically and made laser trimming compensation for zero and sensitivity. The output of UPB8 is amplified to 4~20mA standard output by using special amplifier, simultaneously the output signal can be displayed through LED indicator at working site.

After long-term aging tests and stability tests, this product's performance is very reliable, it is suitable for the pressure measurement and control in bad working conditions, and presently widely used in petroleum, chemical industry, metallurgy, electric power etc.

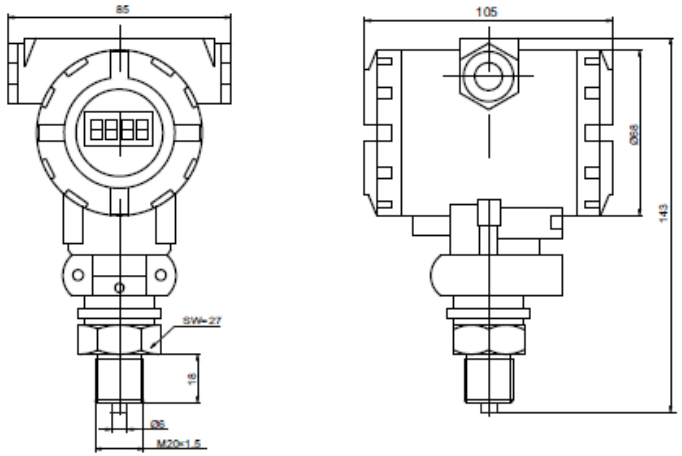
Features

- 4digit LED displaying at working site, simultaneously give 4~20mA signal output
- High performance-to-price ratio, high accuracy, long-term stability
- Electric shell is cast-aluminium material , IP65 protection
- Reversed protection, current limiting protection
- Anti-corrosive, the anti-attrition, the anti-impact
- Flush membrane and the tantalum diaphragm option

Specifications

pressure medium	gas or liquid compatible to stainless steel
pressure ranges	-1...0bar~0.1...1000bar
pressure type	gauge(G), absolute(A), sealed gauge(S)
overload pressure	150%FS~300%FS(determined by measuring range)
output signal	4~20mA, 0~5V, 0~10V, 1~5V
accuracy	0.25%FS, 0.5%FS(standard)
load resistance	RL=(U-12V)/0.02A(4~20mA current output) U—loop voltage（V）
long-term stability	<0.2%FS/year
supply voltage	12~36VDC
compensated temperature range	0~70℃
operating temperature range	-30~95℃
storage temperature range	-40~100℃
temperature coefficient of zero	0.3%FS/10℃
temperature coefficient of span	0.3%FS/10℃
insulation resistance	100MΩ@50VDC
process connection	G1/2 or others
electrical connection	M20×1. 5(female thread)
material of wetted part	1Cr18Ni9Ti
material of pressure membrane	316L
material of housing	cast aluminium
sealing	fluoro-rubber sealing ring

Dimensions



Ordering code

UPB9					
range	measuring range: -1...0~0.1...1000bar				
(X1~X2)bar	X1: lower limit of actual measuring range, X2:higher limit of actual measusring range				
	code	pressure type			
	G	gauge			
	A	absolute			
	S	sealed gauge			
		code	accuracy		
		C	0.25%FS		
		D	0.5%FS		
			code	output	
			O1	4~20mA	
			O2	0~5V	
			O3	1~5V	
			O4	customer request	
				code	others
				P2	G1/2
				P4	M20×1. 5
				Pf	flange
				Pz	customer request
				I1	intrinsic safe
				I2	flame proof
				D2	4-digit LED indicator
UPB9	(-1~10)bar	G	D	O1	P2(I1D2)

*:The users determines whether to choose the options in the parenthesis option according to the working site.

Ordering code

UPB5							
	range	measuring range: 0~0.1bar...35bar					
	(0~X)bar	X: actual measuring range					
		code	accuracy				
		B	0.1%FS				
		C	0.25%FS				
		D	0.5%FS				
			code	output			
			O1	4~20mA			
			O2	0~5V			
			O4	0~10V			
			Oz	customer request			
				code	Others		
				E1	hirschmann connector		
				E2	aviation connector		
				E3	shielded PVC cable		
				Ez	other electrical connection		
				D1	3-1/2LCD digital indicator		
				D2	4 digit LED digital indicator		
				Pn	G1/4 female thread		
				Pa	Air faucet		
				P6	M12×1 male thread		
				Pz	customer request		
UPB5	(0~1)bar	D	O1	E1(D1)*Pn			

*: The users determines whether to choose the options in the parenthesis option according to the working site.

**: Please note the transmitter's line pressure is <200bar, and the pressure in positive & negative cavity should not exceed the required value.

11 UPB12 Piezo-Resistive Silicon Differential Pressure Transmitter

Description

UPB12 differential pressure transducers/transmitters are assembled by using OEM silicon piezoresistive pressure sensors. UPB12's housing is made of aluminum alloy structure, and the products can be installed on the pipelines directly, or connected through pressure pipes. UPB12 differential pressure transducers/transmitters are featured with high stability, good dynamic performance. The non-linearity and temperature drift of the transducers can be compensated by equiped a high performance microprocessor, and also realize such functions as precise data transmission, field apparatus diagnosis, long-distance two-way communications and so on. The output signals of UPB12 have mV, V, or mA, as well as frequency output for options.

UPB12 are suitable for measurement & control for almost kinds of liquids and gas.They are widely used for pressure process & control in electric powers and coal mining pressure such as for boiler air supply and ventilation of mine etc.

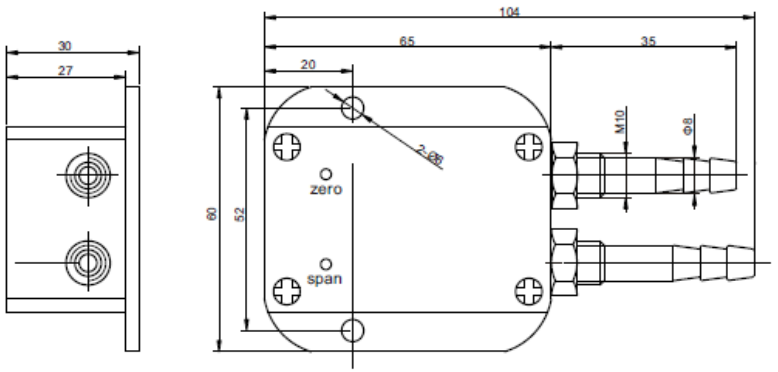
Features

- Using imported sensitive chips and high performance special-purpose circuit
- Strong ability of anti-interference, and good long term stability
- Full scope compensation for zero & sensitivity
- Have mV output signal, and standard Volt or mA output signal for options
- With many different outer structures

Specifications

pressure media	non-electroconductive and non-corrosive gas or dilute-liquid
pressure ranges	0~1...600kPa
overload pressure	300%FS
system pressure	500%FS
output signal	~50mV(for transducer);4~20mA, 0~5V, 0~10V, 1~5V(for transmitter)
accuracy	0.25%FS, 0.5%FS(standard)
zero offset	<1.5%FS
supply voltage	0.5~1.5mA or 3~10VDC(for transducer);12~36VDC(for transmitter)
compensated temperature range	0~60℃
operating temperature range	-20~+85℃
measured media temperature range	-20~+85℃
temperature coefficient of zero	0.3%FS/10℃
temperature coefficient of span	0.3%FS/10℃
insulation resistance	500MΩ@50VDC
process connection	M10 with Φ8 gas nipple or others
electrical connection	cable
relative humdity	0~80%RH
material of housing	aluminum alloy

Dimensions



Ordering code

UPB12					
	range	measuring range: 0~1...600kPa			
	(0~X)kPa	X: required measuring range			
		code	output		
		O1	4~20mA		
		O2	0~5V		
		O3	1~5V		
		O4	0~10V		
		Oc	~70mV (for transducer)		
		Oz	customer request		
			code	accuracy	
			C	0.25%FS	
			D	0.5%FS	
				code	process connection
				P1	M10 with Φ8 gas nipple
				P2	M12
				P3	Φ8 gas nipple
				Pz	customer request
					code / electrical connection
					E3 / shielded PVC cable
					Ez / customer request
UPC12	(0~5)kPa	O1	D	P1	E3

12 UTB5 Temperature Pressure Integration Transmitter

Description

UTB5 temperature pressure integration transmitter is made by using isolated pressure sensor, temperature sensor and special amplifying circuit. This transmitter transforms the pressure and temperature of the measured medium to 4~20mA or other standard signal separately. By using integrated construction, UTB5 can measure pressure and temperature of one spot simultaneously, it is suitable for use in the place where requires not only pressure measurement, but also temperature measurement simultaneously.

UTB5 uses special craft sealed structure, has good performance on against leakage and long term stability. UTB5 features high accuracy, long service life and easy installation etc.

UTB5 has been widely used in scientific research, war industry, petrochemical industry, electric power, metallurgy machinery, and environmental protection, like oil well temperature pressure measurement, diesel engine altogether axle temperature pressure measurement, injection molding mechanical temperature pressure measurement, and so on.

Features

- Measure temperature and pressure simultaneously, save cost
- High accuracy, good stability
- Wide operating temperature range
- Anti-impact, vibration resistance
- Compact size, easy installation

Specifications

measured medium	gas or liquid compatible to stainless steel
measured temperature range	0℃~+140℃
measuring accuracy of temperature	0.5%FS, 1%FS
output signal of temperature	4~20mA
measured pressure range	0~10...2500bar
measuring accuracy of pressure	0.25%FS, 0.5%FS
output signal of pressure	4~20mA (0~5V,1~5V optional)
working temperature range	-20℃~+85℃
compensated temperature range	-10℃~+70℃
storage temperature range	-40℃~+125℃
temperature limit	120% of measured range
power supply	12~32VDC
long term stability	0.15%FS/year
load resistance	>500Ω(24V supply)
circuit temperature shift	<±0.75%FS/50℃
response time	<5ms
insulation resistance	>500MΩ@50VDC
process connection	G1/2 or others
electrical connection	hirchsmann connector or others
material of housing	stainless steel
protection	IP65

INSTRUMENTS

Intelligent Pressure Transmitter

ULB-I

UIB1

UIB5

UIB6

UIB6-D

UIB-W

UIB7

Intelligent Pressure Transmitter

UTOP Pressure Products
Your reliable products

Pressure Switch Contrllor and Gauge

UPS2

UIY6

UPS3

UIY6-D

UPS6

UIY9

Pressure Switch Contrllor and Gauge

INSTRUMENTS

22 UPS2 Electronic Pressure switch

Description

UPS2 electronic pressure switch is pressure measurement & control product with intelligent digital display, it is combined the functions of pressure measurement, display, output and control. This product is made with entire electronic structure, and built isolated-membrane pressure sensor in its front end. Its output signal is amplified through high accuracy & low temperature swift amplifer, then is input high accuracy A/D converter, and processed by microprocessor, the processed signal controls two-way switch, to realize the pressure measurement and control for systems.

The use of UPS2 electronic pressure switch is very flexible. UPS2's operation and adjustment is simple and easy, meanwhile, this product also has good reliability and safety.

UPS2 is widely used in water and electricity industry, petroleum industry, chemical industry, machinery industry etc, for the pressure measurement and control of many kinds of fluids.

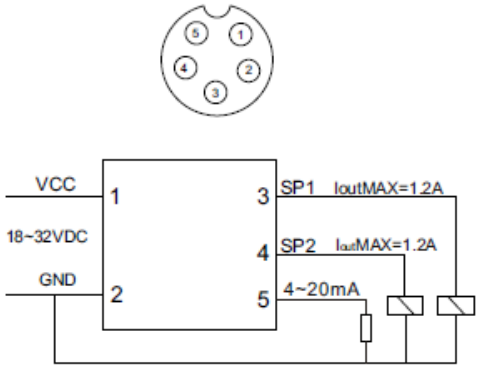
Features

- 4 digit LED Switch value can be set from zero to full scale freely.
- The outer case is equipped with light emitting diode (LED), is easy for abserving operation
- Operation is easy; the pressed key is for adjustment and parameters setting on the spot
- Two-way switch output, 1.2A loading capacity
- 4~20mA analog output (optional)

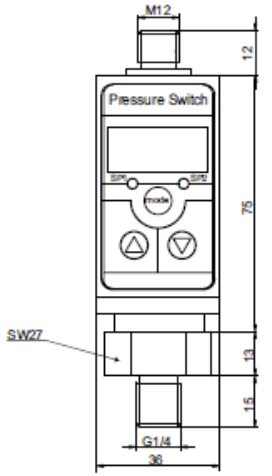
Specifications

pressure medium	gas or liquid compatible with stainless steel
pressure ranges	-1...0~0.1bar...1000bar
overload pressure	150%FS
output signal	4~20mA(option)
control accuracy	0.5%FS(standard)
display accuracy	0.1%FS
long-term stability	<0.2%FS/year
supply voltage	18~32V DC
ambient temperature range	-30~+70℃
media temperature range	-40~+85℃
storage temperature range	-20~100℃
service life of switch	>1million times
power consumption	<3W
load capacity	<24V, 1. 2A
process connection	G1/4 or others
electrical connection	aviation connector or others
material of wetted part	1Cr18Ni9Ti
relative humidity	0~80%
protection	IP65

Electrical connection



Dimensions



Ordering code

UPS2					
range	measuring range: -1...0~0.1bar...1000bar				
(0~X)bar	X: the max. measuring pressure				
	code	analog output			
	O0	no analog output			
	O1	4~20mA			
		code	process connection		
		P1	G1/4		
		P3	1/4NPT		
		P4	M20×1.5		
		Pz	customer request		
			code	electrical connection	
			E1	hirschmann connector(without 4~20mA)	
			E2	aviation connector cable(lock nut)	
			E3	M12 connector	
			E4	2m cable(lock nut)	
				code	switch mode
				N	NPN
				P	PNP
UPS2	(0~20)bar	G	P3	E2	N

*: The pressure set-point and switch state of the two-way pressure switch can be set at any range, suggesting to set the pressure within 10%~100%, so as to assure the working stability of control point.

INSTRUMENTS

23 UPS3 Intelligent Pressure Controller

Description

UPS3 intelligent digital pressure controller is a pressure measurement & control product with intelligent digital display, it is combined the functions of pressure measurement, display, output and control. This product is made with entire electronic structure, and built isolated-membrane pressure sensor in its front end. Its output signal is transformed through high accuracy A/D converter, and processed by microprocessor, finally can be demonstrated on the spot, and generated one-way analog output & two-way switch output.

The use of UPS3 intelligent digital pressure controller is very flexible. UPS3's operation and adjustment is simple and easy, meanwhile, this product also has good reliability and safety.

UPS3 is widely used in water and electricity industry, petroleum industry, chemical industry, machinery industry etc, for the pressure measurement and control of many kinds of fluids on the spot.

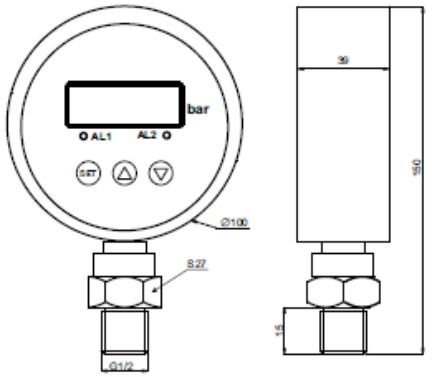
Features

- Dial 100mm
- 4-digit LED display, without apparent value error
- Two-channel control point relay output 220V 3A
- 4~20mA standard output (optional)
- Two-channel control point can be set on the spot
- Intelligent and digital product

Specifications

pressure medium	gas or liquid compatible with stainless steel
pressure ranges	0~600bar
overload pressure	150%FS
output signal	4~20mA(option)
controlling accuracy	0.5%FS(standard)
display accuracy	0.1%FS
long-term stability	<0.2%FS/year
supply voltage	18~32V DC
ambient temperature range	-30~+70℃
media temperature range	-40~+85℃
storage temperature range	-20~100℃
service life of switch	>1 million times
power consumption	<3W
load capacity	<24V, 1. 2A
process connection	G1/2 or others
material of housing	stainless steel
material of wetted part	1Cr18Ni9Ti
relative humidity	0~80%
protection	IP65

Dimensions



Electrical connection

1: Pin connector(on back)

2: Cable (two sides)

Left side: 1(red): power+;
2(yellow): GND;
3(blue): out+;
4(green):out-.

Right side: AL1: 1(red), 2(yellow);
AL2: 3(blue),4(green) .

Ordering code

UPS3					
range	measuring range: 0~1bar...600bar				
(0~X) bar	X: the max. measured pressure				
	code	power supply			
	D	24V DC			
	A	220V AC			
		code	process connection		
		P2	G1/2		
		P6	1/2NPT		
		P4	M20×1.5		
		Pz	customer request		
			code	Electrical connection	
			E2	aviation connector with 2m cable	
			E4	2m cable (lock nut)	
			E5	pin connector(on back)	
			Ez	others	
				code	analog output
				O0	no analog output
				O1	4~20mA
UPS3	(0~25) bar	D	P2	E2	O1

* : The pressure set-point and switch state of the two-way pressure switch can be set at any range, suggesting to set the pressure within 10%~100%, so as to assure the working stability of control point.

INSTRUMENTS

24 UPS6 Digital Pressure Controller

Description

UPS6 digital pressure controller combines the functions of pressure measurement, display as well as control. The front head of UPS6 is using high precise pressure sensor, its output signal is amplified and processed by high accuracy amplifier, then transmitted into A/D converter to convert the signal to be digital signal that can be processed by micro processor. The processed signal can control two switches, and realize the pressure measurement and control for system.

UPS6 is widely used for pressure measurement and control of fluid media in many areas like in electricity, water, petroleum, chemical, mechanical, hydraulic and other industries.

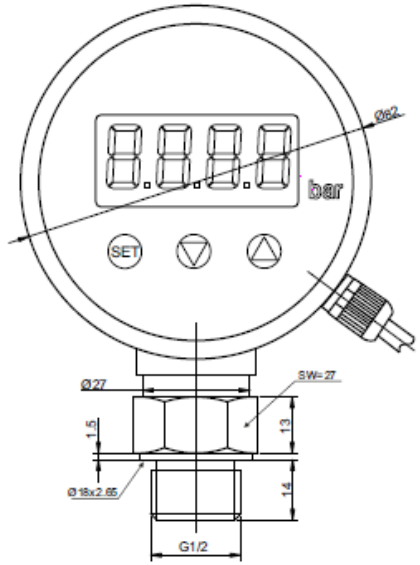
Features

- 4-digit 0.56" LED display
- Pressure preset switch output
- Switch point can be set between zero and span
- LED display easy for observation
- Button adjustment and field settings of various parameters, convenient operation
- Two return difference can be provided with switch output
- Strengthen the anti interference design, suitable for all kinds of electromagnetic harsh industrial environment.

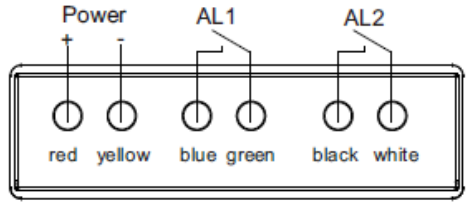
Specifications

pressure ranges	-1~0bar, 0~1...200bar
overload pressure	150%FS
pressure type	gauge
accuracy	0.5%FS
display	4 digit LED
display range	-1999~9999
consumption	<3W
loading capacity	3A/220V AC
long-term stability	<0.2%FS/year
supply voltage	8~28VDC
operating temperature range	-40~+85℃
temperature coefficient of zero	0.1%FS/10℃
temperature coefficient of span	0.1%FS/10℃
process connection	G1/2 or others
electrical connection	6-core cable
housing material	ABS engineering plastic
housing diameter	82mm
protection	IP 65

Dimensions



Electrical connection



Ordering code

UPS6			
	range	measuring range: -1~0bar, 0~1...200bar	
	(0~X)bar	X: required measuring range	
		code	pressure connection
		P2	G1/2
		P4	M20x1.5
		P5	1/2NPT
		Pz	customer request
UPS6	(0~20)bar	P2	

INSTRUMENTS

25 UIY6 Intelligent Pressure Gauge

Description

UIY6 Intelligent pressure gauge is made with entire electronic structure, and uses battery as power supply. It is easy for field installation. UIY-6 intelligent pressure gauges are using high accuracy piezoresistive pressure sensors, which is located in the front end of UIY6. The output signal of the pressure sensor is processed and amplified by high accuracy and low temperature coefficient amplifier, and then transferred to A/D switch to transform digital signal which can be processed by microprocessor. After processing operation, the pressure gauge will demonstrates the actual value of the pressure by LCD indicator. UIY6 has automatic turn-off function in 1~15min.

The use of UIY6 intelligent pressure gauge is obviously flexible, and its operation is very simple, and the adjustment of this gauge is easy, safe and reliable. UIY6 inelligent pressure gauge is widely used in such industries as water and electricity, running water, petroleum, chemical, and machinery, for the measurement and demonstration of fluid medium's pressure.

CE mark

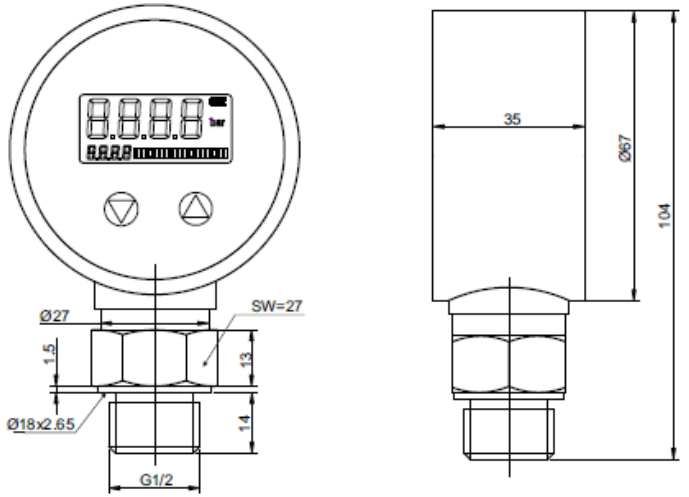
Features

- LCD display, high resolution, without apparent value error
- Peak value recording function, record the max. pressure value during measuring process
- Pressure percentage dynamic demonstration (progress strip demonstratio
- Selectable ranges: MPa, psi, bar, kPa, kg/cm²
- 1~15min automatic turn-off function
- Micro power loss function, can work above 2 years in the electricity saving pattern
- Parameter revision function, can revise the gauge's zero error on the spot

Specifications

pressure medium	gas or liquid compatible to stainless steel
pressure ranges	-1...0~0.1...1000 bar
pressure type	gauge(G), absolute(A), sealed gauge(S)
overload pressure	150%FS
accuracy	0.1%FS,0.25%FS(standard), 0.5%FS
LCD display	4-digit
display range	-1999~9999
long-term stability	<0.1%FS/year
battery power supply	9V DC
compensated temperature range	0~+50℃
operating temperature range	-20~+70℃
selectable ranges	Mpa, psi,bar, kpa, kg/cm2
sampling speed	4 times/sec.
insulation resistance	100MΩ@50VDC
process connection	G1/2 or others
housing material	1Cr18Ni9Ti (for probe housing) and ABS plastic(for indicator case)

Dimensions



Ordering code

UIY6				
range	measuring range: -1...0~0.1bar...1000bar			
(X1~X2)bar	X1: lower limit of actual measuring range, X2:higher limit of factual measuring range			
	code	pressure type		
	G	gauge		
	A	absolute		
	S	sealed gauge		
		code	accuracy	
		B	0.1%FS	
		C	0.25%FS	
		D	0.5%FS	
			code	process connector
			P1	G1/4"
			P2	G1/2"
			P4	M20×1. 5
			P5	1/2"NPT
			Pz	customer request
UIY6	(0~20)bar	G	C	P2

INSTRUMENTS

26 UIY6-D Digital Differential Pressure Gauge

Description

UIY6-D digital differential pressure gauge is made with entire electronic structure, and uses battery as power supply. It is easy for field installation. UIY-6D digital differential pressure gauges are using high accuracy piezoresistive pressure sensors, which is located in the front end of UIY6-D. The output signal of the pressure sensor is processed and amplified by high accuracy and low temperature coefficient amplifier, and then transferred to A/D switch to transform digital signal which can be processed by microprocessor. After processing operation, the pressure gauge will demonstrates the actual value of the pressure by LCD indicator. UIY6-D has automatic turn-off function in 1~15min.

The use of UIY6-D intelligent pressure gauge is obviously flexible, and its operation is very simple, and the adjustment of this gauge is easy, safe and reliable. UIY6-D digital pressure gauge is widely used in such industries as water and electricity, running water, petroleum, chemical, and machinery, for the measurement and demonstration of fluid medium's pressure.

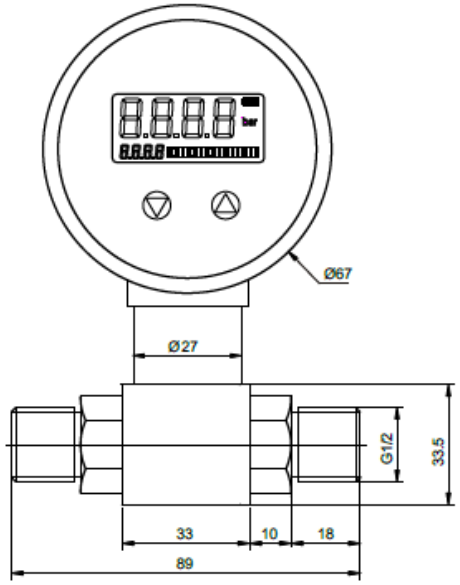
Features

- LCD display, high resolution, without apparent value error
- Peak value recording function, record the max. pressure value during measuring process
- Pressure percentage dynamic demonstration (progress strip demonstration)
- Selectable ranges: Mpa, psi, bar, Kpa, kg/cm2
- 1~15min automatic turn-off function
- Micro power loss function, can work above 2 years in the electricity saving pattern
- Parameter revision function, can revise the gauge's zero error on the spot

Specifications

pressure medium	gas or liquid compatible to stainless steel
pressure ranges	0~0.1...35 bar
pressure type	differential
overload pressure	250%FS
system pressure	10 times of pressure value or 10MPa(select lower one)
accuracy	0.1%FS,0.25%FS(standard), 0.5%FS
LCD display	4-digit
display range	-1999~9999
long-term stability	<0.1%FS/year
battery power supply	9V DC
compensated temperature range	0~+50℃
operating temperature range	-20~+70℃
selectable ranges	Mpa, psi,bar, kpa, kg/cm2
sampling speed	4 times/sec.
insulation resistance	100MΩ@50VDC
process connection	G1/2 or others
housing material	1Cr18Ni9Ti (for probe housing) and ABS plastic(for indicator case)

Dimensions



Ordering code

UIY6-D				
	range	measuring range: 0~0.1bar...35bar		
	(X1~X2)bar	X1: lower limit of actual measuring range, X2:higher limit of factual measuring range		
		code	accuracy	
		B	0.1%FS	
		C	0.25%FS	
		D	0.5%FS	
			code	process connector
			P1	G1/4"male thread
			P2	G1/2" male thread
			Pn	G1/4" female thread
			Pa	air faucet
			P4	M20×1. 5 male thread
			P5	1/2"NPT male thread
			Pz	customer request
UIY6-D	(0~2)bar	C	P2	

27 UIY9 Precise Digital Pressure Gauge

Description

UIY9 precise digital pressure gauge is an intelligent digital gauge with high measuring accuracy and good long term stability. This product has 4~20mA output and RS485 communication function simultaneously It can communicate with computer directly by coordinating communication software to carry on data preservation, processing and output report; Its signal's entire isolated design make it without any disturbance. Its power supply is built-in lithium battery with service life 4~6 years, even the outer power is off, it can also gather the pressure data stably (communication function failed).

UIY9 has axial, radial direction and plate attire structure optional. This product is suitable for pressure calibration of pressure (differential pressure) transmitters, vernier pressure gauge, ordinary pressure gauge, sphygmomanometer etc.

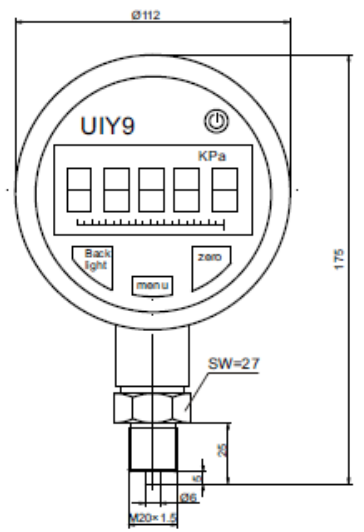
Features

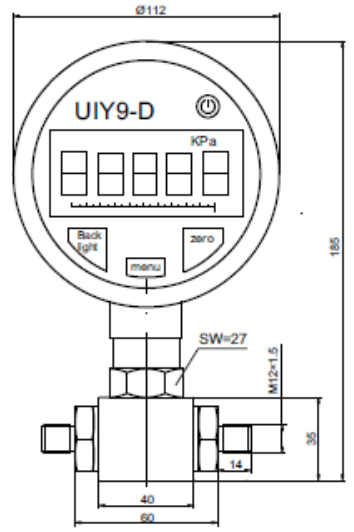
- 0.05%FS accuracy, satisfying high accuracy pressure gathering demand
- RS485 communication, or 4~20mAcurrent output optional
- Anti-electromagnetism and anti-radio-frequency interference technology
- Signal entire isolation technology, against thunder stroke technology
- Super power source management technique, battery life for 4~6 years

Specifications

pressure medium	gas or liquid compatible to stainless steel
pressure ranges	-1...0 bar ~ 0.01...2600 bar
pressure type	gauge(G), absolute(A), sealed gauge(S),differential(D)
overload pressure	150%FS~300%FS (determined by range)
output signal	4~20mA (option)
communication	RS485, RS232, USB, MODBUS, USART (option)
accuracy	0.05%FS, 0.1%FS, 0.2%FS, 0.5%FS
load resistance	RL=(U-12V)/0.02A(4~20mA current output) U-loop voltage (V)
long-term stability	<0.1%FS/year
supply voltage	Lithium battery and 10~30VDC supply (for communication and 4~20mAoutput)
medium temperature range	-40~+85℃
operating temperature range	-30~+60℃
display	dynamic 5-digit LCD display
process connection	G1/2 (male)or others
explosive-proof	ExiaIIBT4

Dimensions





Ordering code

UIY9					
range	measuring range: -1...0~0.01bar...2600bar				
(X1~X2)bar	X1: lower limit of actual measuring range, X2:higher limit of factual measuring range				
	code	pressure type			
	G	gauge			
	A	absolute			
	S	sealed gauge			
	D	differential			
		code	accuracy		
		A	0.05%FS		
		B	0.1%FS		
		C	0.25%FS		
		D	0.5%FS		
			code	output and communication(option)	
			O	4~20mA	
			R	MODBUS protocol (RS485 interface)	
			W	only display, without output	
				code	process connector
				P1	G1/4"
				P2	G1/2"
				P4	M20×1.5
				P5	1/2"NPT
				Pz	customer request
UIY9	(0~20)bar	G	A	W	P2

Pressure Transducer

28 UPC1 Silicon Pressure Transducer

Description

UPC1 pressure transducer is piezoresistive pressure transducer by using piezoresistive sensing element based on advanced MEMS technology , suitable for the measurement of gauge pressure, vacuum pressure, absolute pressure and sealed gauge pressure. This product has such features as wide measuring ranges, good long term stability and excellent flexibility.

UPC1 pressure transducer is now widely used in many industries and laboratories for pressure measurement and control of various fluids.

Features

- Using MEMS silicon pressure dies
- High accuracy, stability and reliability
- Automatic testing, laser trimming compensating zero and sensitivity in wide temperature range
- Compact size, light weight and high frequency response
- Constant current or constant voltage power supply

Specifications

pressure medium	virous gases and liquids compatible to stainless steel
pressure ranges	-1...0bar~0.1...1000bar
pressure type	gauge(G), absolute(A), sealed gauge(S)
overload pressure	150%FS
output signal	≥70mV (for 0.1bar about 40mV)
accuracy	0.1%FS, 0.25%FS(standard), 0.5%FS
zero offset	<2mV
long-term stability	<0.2%FS/year
excitation	1.5mA or 10VDC
compensated temperature range	0~60℃
operating temperature range	-10~80℃
storage temperature range	-40~100℃
temperature coefficient of zero	0.02%FS/℃
temperature coefficient of span	0.02%FS/℃
input/output resistance	2~6kΩ
insulation resistance	100MΩ@50VDC
response time	≤1ms
process connection	M20×1.5 or others
electrical connection	hirschmann connector or others
material of wetted part	1Cr18Ni9Ti
material of pressure membrane	316L
material of housing	1Cr18Ni9ti