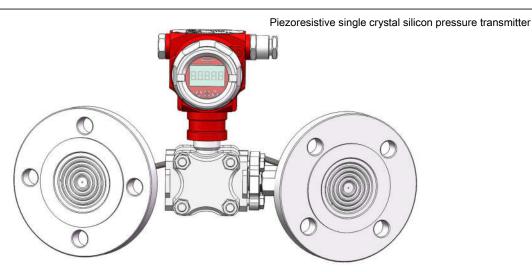


Product introduction

Description



SMP858 piezoresistive single crystal silicon pressure transmitter is a high performance pressure transmitter with international leading technology meticulously designed by LEEG instrument, using the world's most advanced single crystal silicon pressure sensor technology and patent encapsulation technology. Single crystal silicon pressure sensor locates on the top of the metal body and stay away from the medium interface to realizes mechanical isolation and thermal isolation. Glass sintering sensor wire realizes high strength electrical insulation of metal base and improves the capability of flexibility of electronic circuit and transient voltage resistance protection. All these original encapsulation technologies enable DMP305X to easily cope with extreme chemical occasion and mechanical load, and own strong resistance to EMI, sufficient to respond to the most rigorous industrial environment applications, which are the genuine invisible instruments.

Main parameters

| Pressure types | Differential pressure |
|--------------------|---|
| | 4kPa-1MPa, please refer to the ordering information chapter |
| Output signal | 4-20mA、4-20mA+HART, others |
| Reference accuracy | ±0.2% URL, optional ±0.5% URL |

Measuring medium

The fluid which compatible with wetted parts

Field of application

Pressure, level, differential pressure, density, interface, flow

Approvals



Disclaimer: all the data used in the product description is not legally binding. Relevant technical details may be changed due to further improve



Technical specifications

Measuring range and limit

| Nominal value | Smallest | Lower range limit | Upper range limit | Static pressure | High pressure side | Low pressure side |
|---------------|-------------------|-------------------|-------------------|-----------------|--------------------|-------------------|
| | calibratable span | (LRL) | (URL) | limit* | overload limit* | overload limit* |
| 40kPa | 4kPa | -40kPa | 40kPa | 10MPa | 10MPa | 10MPa |
| 250kPa | 25kPa | -250kPa | 250kPa | 10MPa | 10MPa | 10MPa |
| 1MPa | 100kPa | -500kPa | 1MPa | 10MPa | 10MPa | 10MPa |

Adjust requirements: lower range value (LRV) and upper range value (URV) can be adjusted within the scope of the upper and lower range limit, when | URV | ≥ | LRV |, needs | URV | ≥ smallest calibratable span; when | URV | ≤ | LRV |, needs | LRV | ≥ smallest calibratable span

*Limit value of overpressure: depends on the pressure value of the parts with lowest pressure capacity

Standard specifications and reference conditions

Test standard: GB/T28474 / IEC60770; Zero basedcalibration span, silicon oil filling, 316L stainless steel isolation diaphragm, 4-20mA analog output.

Performance specifications

The overall performance including but not limited to 【Reference accuracy】,【Environment temperature effects】,【Static pressure effects】and other comprehensive error

Typical accuracy: ±0.2%URL

Stability: ±0.2% URL/ 5year

Reference accuracy

| Including linearity(BFSL), hysteresis and repeatability. | | | |
|--|---------------|----------|----------------|
| calibration temperature: 20 °C ± 5 °C | | | |
| Linear | TD<10(note 1) | +0.2%URI | Nominal value: |

Linear output accuracy Max value ±0.5% URL Nominal value: 40kPa、250kPa 1MPa、

Square root output accuracy is 1.5 times linear output accuracy

Note 1: TD is Turn down

when $|URV| \ge |LRV|$, TD=URL/|URV|when $|URV| \le |LRV|$, TD=URL/|LRV|

Ambient temperature effects

| Within the range - 20-80 °C | ±(0.1+0.1TD)% URL |
|-----------------------------|------------------------|
| total impact | [(0.110.112) //0 0112 |

Static pressure effects

| Effect on zero | ±0.15TD % URL/4MPa |
|----------------------|--------------------|
| Effect on full scale | ±0.2% URL/4MPa |

Power supply effects

When power supply voltage is within 10.5/16.5-55VDC, zero and span change should not more than $\pm 0.005\% URL/V$

Mounting position effects

Install error less than 400Pa, which can be corrected by PV=0 reset.

Vibration effects

According to GB/T1827.3/IEC61298-3,<0.1% URL

Output signal

Two wire 4-20 mA output with digital communications, linear or square root output programmable, HART protocol is superimposed on the 4-20mA signal.

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Technical specifications

Damping time

| Total damping time constant: equal to the sum of damping time of amplifer and sensor capsule |
|--|
| Damping time of amplifer : 0-100S adjustable |
| Damping time of sensor capsule (isolation sensor diaphragm and silicon oil filling)≤0.2S |
| Startup after power off: ≤6S |
| Normal services after data recovery : ≤31S |

Weight

Net weight: about 6.35 kg (Tri-Clamp process connection accessory, without mounting brackets)

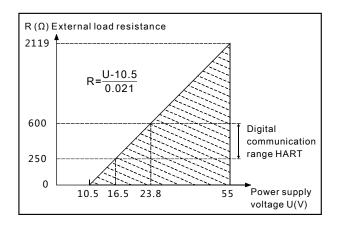
Environment condition

| Items | Operational condition |
|------------------------|---|
| Working temperature | -40-85°C, LCD display unit: -20-70°C |
| Storage temperature | -40-110°C, LCD display unit:-40-85°C |
| Media | With silicon oil -40-120°C |
| temperature | With neobee M-20 -10-80°C |
| Working humidity | 5-100%RH@40°C |
| Proction class | IP67 |

Power supply

| Item | Operating conditions |
|-----------------------|--|
| Standard/flame proof | 10.5-55VDC |
| HART protocol | 16.5-55VDC,communication load resistance 250Ω |
| Load resistance | 0-2119Ω for operation, 250-600Ω for HART protocol |
| Transmission distance | <1000 meters |
| Power consumption | ≤500mW@24VDC,20.8mA |

Power supply and load requirements



EMC environment

| NO. | Test items | Basic standards | Test conditions | Performance level |
|-----|--|---------------------------|--|-------------------|
| 1 | Radiated interference | GB/T 9254/CISPR22 | 30MHz-1000MHz | ок |
| 2 | Conducted interference (DC power port) | GB/T 9254/CISPR22 | 0.15MHz-30MHz | ок |
| 3 | Electrostatic discharge immunity test (ESD) | GB/T 17626.2/IEC61000-4-2 | 4kV(Contact),8kV(Air) | B(Note2) |
| 4 | Immunity to radio frequency EM-fields | GB/T 17626.3/IEC61000-4-3 | 10V/m(80MHz-1GHz) | A(Note1) |
| 1 | Power frequency magnetic field Immunity test | GB/T 17626.8/IEC61000-4-8 | 30A/m | A(Note1) |
| 6 | Electrical fast transient / Burst Immunity Test | GB/T 17626.4/IEC61000-4-4 | 2kV(5/50ns,100kHz) | B(Note2) |
| 7 | Surge immunity requirements | GB/T 17626.5/IEC61000-4-5 | 1kV(Line to line) 2kV(Line to ground) (1.2us/50us) | B(Note2) |
| | Immunity to conducted disturbances induced by radio frequency fields | GB/T 17626.6/IEC61000-4-6 | 3V(150kHz-80MHz) | A(Note1) |

(Note 1)Performance level A: The preformance within the limits of normal technical specifications.

(Note 2)Performance level B: Temporary reduction or loss of functionality or preformance, it can restore itself. The actual operating conditions, storage and data will not be changed.

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Menu function

Specific menu

Transmission module type

| Output signal | Local control | Remote control |
|---------------|-----------------------|----------------|
| 4-20mA+HART | LCD/3 buttons on body | HART |
| 4-20mA | LCD/3 buttons on body | - |

LCD display unit

| Display mode | Details |
|-----------------|--|
| PV | Process variable shows on main screen, percentage and progress bar shows on secondary screen |
| mA | Current shows on main screen, percentage and progress bar shows on secondary screen |
| % | Percentage shows on main screen, percentage and progress bar shows on secondary screen |

Unit

| Unit | Definition | |
|---|--------------------------------|--|
| kPa | Kilopascal | |
| MPa | Megapascals | |
| bar | Bar | |
| psi | Pounds per square inch | |
| mmHg | Millimetre(s) of mercury@0°C | |
| mmH2O | Millimeter of water@4°C | |
| mH2O | Meter of water@4°C | |
| inH2O | Inches of water@4°C | |
| ftH2O | Feet of water@4°C | |
| inHg | Inches of mercury@0°C | |
| mHg | Meter mercury column@0°C | |
| TORR | Torr | |
| mbar | Millibar | |
| g/cm2 | Gram per square centimeter | |
| kg/cm2 | Kilogram per square centimeter | |
| Ра | PA | |
| АТМ | Standard atmospheric pressure | |
| mm | Millimeter(Note1) | |
| m | Meter(Note1) | |
| Note1: length unit need mark medium density | | |

Measuring menu set

| Mark | State | |
|------|-------------------|--|
| URV | Upper range value | |
| LRV | Lower range value | |

Damping time

| Units | Setting range | |
|-------|---------------|--|
| S | 0-100 | |

Analog output type

| Parameters | Output type | | |
|------------|-------------|--|--|
| mA LINER | Linearity | | |
| mA √ | Square root | | |

Alarm signal

| Parameters | Alarm signal | | |
|------------|--------------|--|--|
| ALARM NO | None | | |
| ALARM H | 20.8mA | | |
| ALARM L | 3.8mA | | |

Fix output

| Parameters | Fix output value | | |
|------------|------------------|--|--|
| FIX/C NO | None | | |
| 3.8000 | 3.8000mA | | |
| 4.0000 | 4.0000mA | | |
| 8.0000 | 8.0000mA | | |
| 12.000 | 12.000mA | | |
| 16.000 | 16.000mA | | |
| 20.000 | 20.000mA | | |
| 20.800 | 20.800mA | | |

Quick menu

| Parameter | Instruction |
|-------------------------|--|
| PV=0 | Set current output to zero value, used to correct the error cased by static pressure and installation. |
| Zero adjustment | 4mA re-range with pressure |
| Span adjustment | 20mA re-range with pressure |
| Restore factory setting | Restore backup data when error |

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Product selection instruction

Sensor select instruction

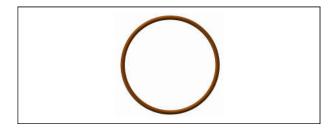
| Code | Nominal value | Description | |
|-------|------------------|---|--|
| S403D | 40kPa | Range -40kPa-40kPa, smallest calibratable span 4kPa | |
| S254D | 250kPa | Range -250kPa-250kPa, smallest calibratable span 25kPa | |
| S105D | 1MPa | Range -500kPa-1000kPa, smallest calibratable span 100kPa | |

| Code | Parts | Description |
|------|--------------|--|
| S | Diaphragm | SS 316L |
| Н | material | Hastelloy C |
| S | Filled fluid | Silicon Oil, process temperature: -45-205°C |
| F | rilled liuld | Neobee M-20, process temperature: -10-180℃ |
| S | Sensor seal | O-ring, FKM |

Diaphragm(S/H)



Seal(S)



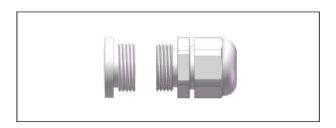
Electrical connection select instruction

| Code | Item | Description |
|------|-----------------------------|---|
| T1 | Electrical connection | Aluminum-alloy termimal,2 cable entry M20*1.5(F), red body, white cover |
| R1 | | Waterproof connector M20X1.5 one side , blind plug another side, PVC material,6-8mm diameter cable only, IP67 |
| R2 | Cable entry protector | Flame proof, 1/2 NPT(F) one side, blind plug another side, stainless steel material, 6-8mm diameter cable only, IP67 |
| R3 | | Flame proof, M20X1.5(F) one side, blind plug another side, stainless steel material, 6-8mm diameter cable only, IP67 |

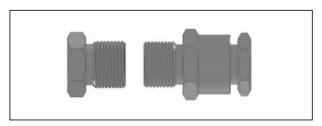
Housing(T1)



Standard cable entry protective adaptor(R1)



Flame proof cable entry protective adaptor(R2/R3)



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Product selection instruction

Transmission module

| Code | Items | Description |
|------|---------|---|
| F | Output | 4-20mA two wire, power supply: 10.5-55VDC |
| Н | signal | 4-20mA+HART two wire, power supply:16.5-55VDC |
| Α | Display | Without display |
| С | | With LCD display |

Display module (C)



Terminals(N1)



Process connection select instruction

| Connection | HL | High, low-pressure side connection | |
|----------------------------|----|--|--|
| position | /H | High-pressure side conection(High- pressure side value≠ low-pressure side value) | |
| Connection type | С | Capillary transmission | |
| Capillary type | M2 | Armoured SUS304, outer diameter: 3.5mm | |
| Capillary length | XX | XX value range: 00-10, samples: 02=2 meters; 10=10meter | |
| Isolation fluid filling | S | Silicon Oil, process temperature: -45- 205°C | |
| | Н | Silicon Oil, process temperature: 0- 315℃ | |
| | F | Neobee M-20, process temperature: - 10-180°C | |

| 10/attad = a = = | 14 | 0110004 |
|--------------------------|-------|--|
| Wetted parts material | 4 | SUS304 |
| | 6 | SUS316 |
| Diaphragm material | S | SUS316 |
| | Н | Hastelloy C |
| Flange specifications | H01 | HG/T 20592-2009, DN50PN10- PN40 raised face flange |
| | H05 | HG/T 20592-2009, DN80PN10 raised face flange |
| | H06 | HG/T 20592-2009, DN100PN10 raised face flange |
| | K01 | Tri-Clamp 1-1/2" |
| | K02 | Tri-Clamp 2" |
| Insert tube | D00 | None |
| diameter | D01 | Diameter:66mm, length:50mm |
| Connection position | /L | Low-pressure side connection (High-pressure side value + low- pressure side value) |
| Connection type | С | Capillary transmission |
| Capillary type | M2 | Armoured SS304L,outer diameter 3.5mm |
| Capillary length | XX | XX value range: 00-10,samples: 02=2 meters; 10=10meters |
| Isolation fluid filling | S | Silicon Oil, process temperature: -45-205℃ |
| | Н | Silicon Oil, process temperature: 0-315°C |
| | F | Neobee M-20, process temperature: -10-180°C |
| Wetted parts | 4 | SUS304 |
| material | 6 | SUS316 |
| Diaphragm | S | SS316L |
| material | Н | Hastelloy C |
| Flange specifications | H01 | HG/T 20592-2009, DN50PN10- PN40 raised face flange |
| | H05 | HG/T 20592-2009, DN80PN10 raised face flange |
| | H06 | HG/T 20592-2009, DN100PN10 raised face flange |
| | K01 | Tri-clamp 1-1/2" |
| | K02 | Tri-Clamp 2" |
| Insert tube | D00 | None |
| diameter | D01 | Diameter:66mm, length:50mm |

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Product selection instruction

Brackets

| Code | Item | Description |
|------|------|--|
| B1 | 1 | Pipe mounting bent bracket,2" pipe, carbon steel, apply to H-structure |
| B2 | | Plate mounting bent bracket, carbon steel, apply to H-structure |
| В3 | | Pipe mounting flat bracket,2" pipe, carbon steel, apply to H-structure |

Pipe mounting bent bracket(B1)

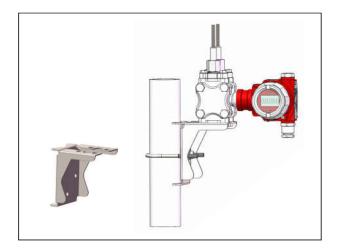
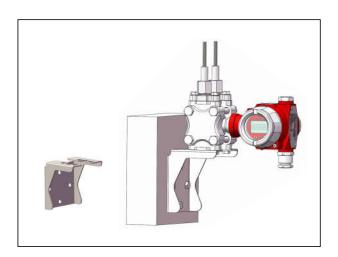
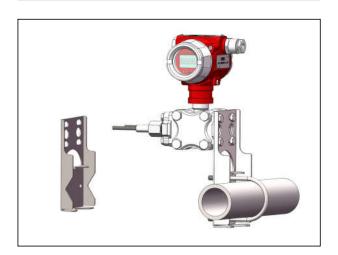


Plate mounting bend bracket(B2)



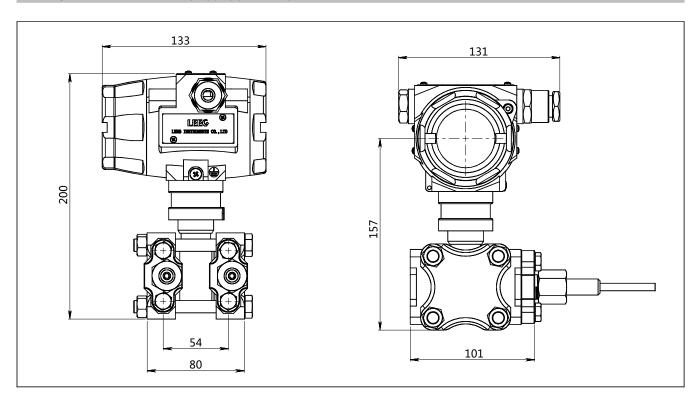
Pipe mounting flat bracket(B3)



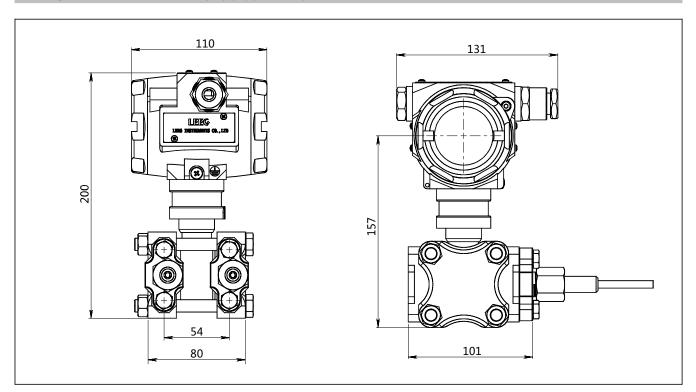
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Drawing and dimension with display(C) (unit:mm)



Drawing and dimension without display (A) (unit:mm)



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Pipe mounting bent bracket (B1)drawing and dimension (unit:mm)

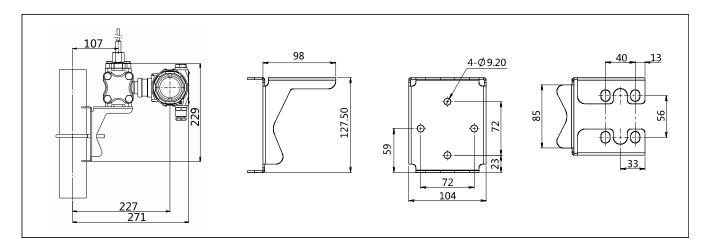
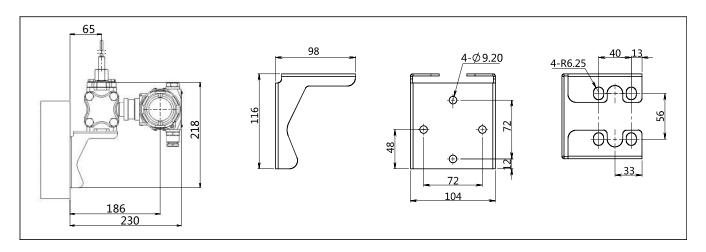
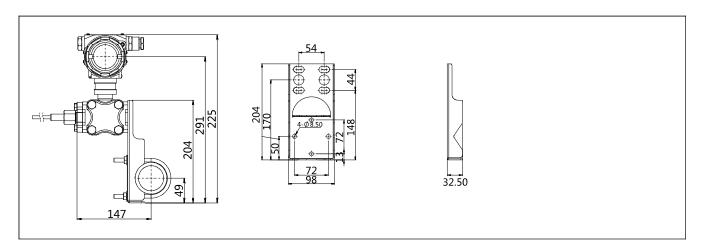


Plate mounting bent bracket(B2)drawing and dimension (unit:mm)



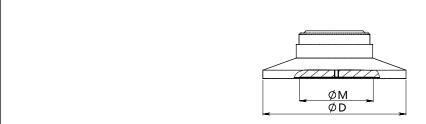
Pipe mounting flat bracket (B3)drawing and dimension (unit:mm)



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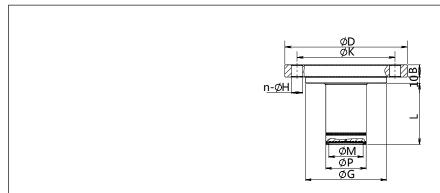


Process connection (K01-K02)(unit: mm)



| Standard | Specification | Size(ΦD) | Corrugation size(ФМ) |
|-----------|---------------|----------|----------------------|
| Tri-Clamp | 1-1/2" | 50.5 | 31 |
| Tri-Clamp | 2" | 64 | 42 |

Process connection (D01-D03)(unit: mm)



| Standard | Specification | Outer diameter(ΦD) | Thickness(B) | Raised face diameter(ΦG) |
|------------------------|---------------|--------------------|--------------------------|--------------------------|
| HG/T20592-2009 | DN80PN10 | 200 | 20 | 138 |
| HG/T20592-2009 | DN80PN10 | 200 | 20 | 138 |
| HG/T20592-2009 | DN80PN10 | 200 | 20 | 138 |
| Hole circumference(ΦK) | Number(n) | Hole diameter(ΦH) | Insert tube diameter(ΦP) | Insert tube length(L) |
| 160 | 8 | 18 | 66 | 50 |
| 160 | 8 | 18 | 66 | 100 |
| 160 | 8 | 18 | 66 | 150 |

Corrugation size(ФМ)

42

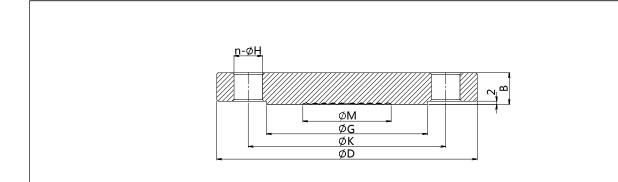
42

42

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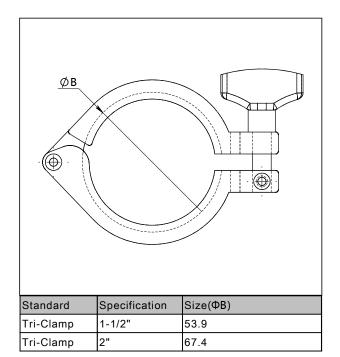


Process connection (H01, H05-H06) (unit: mm)

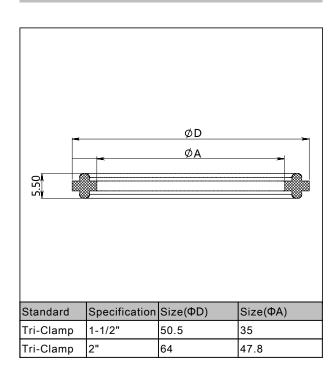


| Standard | Specification | Outer diameter (ΦD) | Thickness (B) | Hole circumference (ΦK) |
|-------------------------|-------------------|---------------------|----------------------|-------------------------|
| HG/T20592-2009 | DN50PN10 | 165 | 19 | 125 |
| HG/T20592-2009 | DN80PN10 | 200 | 20 | 160 |
| HG/T20592-2009 | DN100PN10 | 200 | 20 | 160 |
| Raised face diameter(Φ) | Hole diameter(ΦH) | Number(n) | Corrugation size(ΦM) | |
| 102 | 18 | 4 | 42 | |
| 138 | 18 | 8 | 42 | |
| 158 | 18 | 8 | 42 | |

Tri-Clamp (G1-G2)(unit: mm)



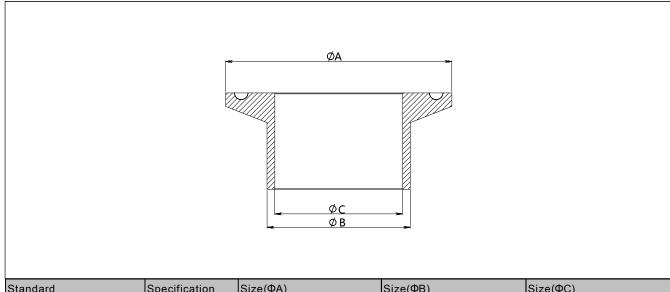
Seal ring (M1-M2)(unit: mm)



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Welding adaptor(Z1-Z2) (unit: mm)



| Standard | Specification | Size(ΦA) | Size(ΦB) | Size(ΦC) |
|-----------|---------------|----------|----------|----------|
| Tri-Clamp | 1-1/2" | 50.5 | 38 | 35.6 |
| Tri-Clamp | 2" | 64 | 51 | 48.6 |

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Ordering information chapter

| Item | Parameters | Code | Instruction | (*) fast delivery available |
|------------------------------|-----------------------|-------|--|-----------------------------|
| | Model | | Piezoresistive single crystal silicon differential pressure transmitter | |
| Sensor Separato | | - | Detailed specifications as following | |
| | Pressure | S403D | Nominal value(URL): 40kPa | * |
| | range code | S254D | Nominal value(URL): 250kPa | * |
| | | S105D | Nominal value(URL): 1MPa | * |
| Electrical connection | Separator | - | Detailed specifications as following | |
| | Electrical connection | T1 | Aluminum-alloy termimal,2 cable entry M20*1.5(F), red body, white cover | * |
| | Cable entry protector | R1 | Waterproof connector M20X1.5 one side , blind plug another side, PVC material,6-8mm diameter cable only, IP67 | * |
| | | R2 | Flame proof, 1/2 NPT(F) one side, blind plug another side, stainless steel material, 6-8mm diameter cable only, IP67 | |
| | | R3 | Flame proof, M20X1.5(F) one side, blind plug another side, stainless steel material, 6-8mm diameter cable only, IP67 | * |
| Output | Separator | - | Detailed specifications as following | |
| | Output signal | F | 4-20mA two wire, power supply: 10.5-55VDC | * |
| | | Н | 4-20mA+HART two wire, power supply: 16.5-55VDC | * |
| | Display | А | Without LCD display | |
| | | С | LCD display | * |
| Process connection | Separator | - | Detailed specifications as following | |
| | Connection position | HL | High, low-pressure side connection(High-pressure side value=low-pressure side value) | |
| | | /H | High-pressure side connection (High-pressure side value + low-pressure side value) | |
| | Connection type | С | Capillary transmission | * |
| Process | Capillary type | M2 | Armoured SUS304,outer diameter 3.5mm | * |
| connection (High-pressure | Capillary length | XX | XX value range: 00-10,samples: 02=2 meters; 10=10meters | |
| side) | Isolation | S | Silicon Oil, process temperature: -45-205°C | * |
| | fluid filling | Н | Silicon Oil, process temperature: 0-315°C | |
| | | F | Neobee M-20, process temperature: -10-180°C | * |
| | Wetted | 4 | SUS304 | * |
| | parts material | 6 | SUS316 | |
| | Diaphragm | S | SUS316L | * |
| | material | Н | Hastelloy C | |

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Ordering information chapter

| | Flange specifications | H01 | HG/T 20592-2009, DN50PN10-PN40 raised face flange(Max measuring range:1MPa) | * |
|------------------------------|------------------------------|-----|--|---|
| | | H05 | HG/T 20592-2009, DN80PN10 raised face flange(Max measuring range: 1MPa) | * |
| | | H06 | HG/T 20592-2009, DN100PN10 raised face flange(Max measuring range:1MPa) | * |
| | | K01 | Tri-Clamp 1-1/2"(Max measuring range:1MPa) | * |
| | | K02 | Tri-Clamp 2"(Max measuring range:1MPa) | * |
| | Insert tube | D00 | None | |
| | diameter | D01 | Diameter:66mm, length:50mm | * |
| | Connection position | /L | Low-pressure side connection(High-pressure side value + low-pressure side value) | * |
| | Connection type | С | Capillary transmission | |
| | Capillary type | M2 | Armoured SS304L,outer diameter 3.5mm | |
| | Capillary length | xx | XX value range: 00-10,samples: 02=2 meters; 10=10meters | |
| | Isolation fluid | S | Silicon Oil, process temperature: -45-205°C | * |
| | filling | Н | Silicon Oil, process temperature: 0-315°C | |
| Process connection | | F | Neobee M-20, process temperature: -10-180°C | * |
| (Low- | Wetted parts | 4 | SUS304 | * |
| pressure side, while the | material | 6 | SUS316 | |
| parameters of | | S | SUS316L | * |
| two pressure side is not the | material | Н | Hastelloy C | |
| same) | Flange | H01 | HG/T 20592-2009, DN50PN10-PN40 raised face flange | * |
| | specifications | H05 | HG/T 20592-2009, DN80PN10 raised face flange | * |
| | | H06 | HG/T 20592-2009, DN100PN10 raised face flange | * |
| | | K01 | Tri-Clamp 1-1/2" | * |
| | | K02 | Tri-Clamp 2" | * |
| | Insert tube | D00 | None | |
| | diameter | D01 | Diameter:66mm, length:50mm | |
| Additional options | Separator | - | Detailed specifications as following | |
| | Fixed mounting accessory | /B1 | Pipe mounting bent bracket,2" pipe, carbon steel, apply to H- structure | * |
| | | /B2 | Plate mounting bent bracket, carbon steel, apply to H-structure | * |
| | | /B3 | Pipe mounting flat bracket,2" pipe, carbonsteel, apply to H-structure | * |
| | Process connection accessory | /G1 | 1.5" Tri-Clamp | * |
| | | /G2 | 2" Tri-Clamp | * |
| | | /M1 | 1.5" seal ring | * |
| | | /M2 | 2" seal ring | * |
| | | /Z1 | Welding adaptor, Tri-Clamp1-1/2" | |
| | | /Z2 | Welding adaptor, Tri-Clamp2" | |

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| Г | Display mode | /D1 | According to your requirement | |
|-----|------------------|-----|---|---|
| | Calibration | /Q1 | Calibration report provided by our company | * |
| r | eport | /Q2 | Calibration report provided by chinese authorised third party | |
| | | /Q3 | Static pressure report (Differential pressure only) | |
| | Approvals | /E1 | Flame proof certificate, ExdIICT6, NEPSI | * |
| | multiple) | /I1 | Intrinsic safety certificate, ExialICT4, NEPSI | * |
| | | /L3 | CE certificate | * |
| V | Wetted parts /G1 | /G1 | Ungrease treatment | |
| Įt, | reatment | /G2 | Electropolishing treatment | |

| Item | Menu mark | Factory setting value |
|--------------------|-----------|-----------------------------|
| Tag position | None | 0(No specific settings) |
| Analog output type | mA | Liner(No specific settings) |
| Display mode | DISP | PV(No specific settings) |
| Alarm signal | ALARM | No(No specific settings) |

| Item | Menu mark | Factory setting value |
|---------------------------|-----------|-------------------------|
| Damping value | DAMP | 0(No specific settings) |
| 4mA Lower range value | LRV | According to the order |
| 20mA Upper range value | URV | According to the order |
| Process unit | U | According to the order |

Factory certificate

| Certification organization | Intertek |
|----------------------------|---|
| Quality management system | ISO9001-2008 |
| Scope of certification | Design and production of pressure transmitter |
| Registration number | 110804039 |

CE

| License scope | PRESSURE TRANSMITTER |
|-------------------|----------------------|
| Standard | EN61000-6-2 : 2005 |
| | EN61000-6-4 : 2007 |
| Registered number | AC/0100708 |







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2016.05.V1.0 www.leeg.cn