

## Product introduction

### Description



Monosilicon pressure transmitter

Safety is the primary concern of food and pharmaceutical production. Sanitary pressure transmitter specifically designed for the food and pharmaceutical industry, adopts stainless steel external structure. And the wetted parts with superb stainless steel 316L diaphragm and complete welding technology, the polished finish  $\leq 0.4 \mu$ . Hygienic filling liquids in line with FDA standard. Suitable for CIP and SIP cleaning. Richen international standard process connection for optional.

Independent research and development of the core sensor and transmission technology, tens of millions of industrial field application test, hundreds of continuous improvement of design and manufacturing, fully automated equipment for factory inspection and records. Transmitter performance meet the national standard.

### Main parameters

|                    |                                            |
|--------------------|--------------------------------------------|
| Pressure types     | Gauge & Absolute pressure                  |
| Measuring range    | 10kPa -3MPa                                |
| Output signal      | 4-20mA, 4-20mA+HART, customer              |
| Reference accuracy | $\pm 0.5\%$ F.S. optional $\pm 0.2\%$ F.S. |

### Measuring medium

|                |                                               |
|----------------|-----------------------------------------------|
| Normal medium  | Gas, Steam, Liquid                            |
| Special medium | The fluids which compatible with wetted parts |

### Field of application

|                  |                                                            |
|------------------|------------------------------------------------------------|
| Process Industry | Petrochemical, Chemical, Power, Steel, Cement, Papermaking |
|------------------|------------------------------------------------------------|

### Approvals





## Performance Parameter

## Measuring range and limit

| Nominal value | Smallest calibratable span | Lower range limit(LRL) | Upper range limit(URL) | Overload limit |
|---------------|----------------------------|------------------------|------------------------|----------------|
| 40kPa         | 10kPa                      | -40kPa                 | 40kPa                  | 1MPa           |
| 250kPa        | 25kPa                      | -100kPa                | 250kPa                 | 4MPa           |
| 1MPa          | 100kPa                     | -100kPa                | 1MPa                   | 6MPa           |
| 3MPa          | 300kPa                     | -100kPa                | 3MPa                   | 15MPa          |

Above measurement range can be replaced by kg/cm<sup>2</sup>, MPa and kPa units .Which can provide other measurement range according to the requirements. Adjust requirements: lower range value (LRV) and upper range value (URV) can be adjusted within the scope of the upper and lower range limit, smallest calibratable span ≤ | URV-LRV | ≤ upper range limit.

## Standard specifications and reference conditions

Test standard: GB/T28474 / IEC60770; zero based-calibration span, linear output, silicone oil filling, 316L stainless steel isolation diaphragm.

## 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/year

## Reference accuracy

Including linearity, hysteresis and repeatability. calibration temperature: 20℃±5℃

| Linear output accuracy | Typical   | ±0.2% URL | Nominal value<br>40kPa, 250kPa<br>1MPa, 3MPa |
|------------------------|-----------|-----------|----------------------------------------------|
|                        | Max value | ±0.5% URL |                                              |

The accuracy of square root output is 1.5 times of above linear reference output accuracy.

## Ambient temperature effects

Within the range -20-80℃ total impact ±0.2% URL/10K

## Power supply effects

Zero and span change should not be more than ± 0.005% URL/V when power supply changes in 10.5/16.5-55VDC

## Loading effects

Zero and span change should not be more than ± 0.05% URL/kΩ

## Vibration effects

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Vibration resistance | According to IEC60068-2-6 , 10g RMS (25-2000HZ) |
| Impact resistance    | According to IEC60068-2-27 , 500g/1ms           |

## Output signal

| Signal      | Type      | Output   |
|-------------|-----------|----------|
| 4-20mA      | Linearity | Two wire |
| 4-20mA+AHRT | Linearity | Two wire |

## Insulation resistance

≥20MΩ@ reference, 100VDC



## Performance Parameter

## Damping time

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

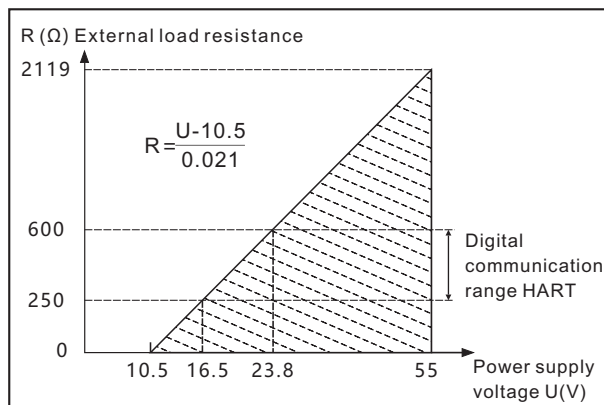
## Weight

Net weight: about 0.6kg ( without mounting bracket and process connection adaptor )

## Power supply

| Item                  | Operating conditions                              |
|-----------------------|---------------------------------------------------|
| Standard              | 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



## Environment condition

| Items                                                                                                                                   |       | Operational condition                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Media temperature                                                                                                                       |       | -40-85°C, integrated LCD display:-20-70°C                                                                                                               |
| Storage temperature                                                                                                                     |       | -40-110°C, integrated LCD display:-40-85°C                                                                                                              |
| Isolated filling fluid temperature                                                                                                      |       | Hygienic fluid filling s:-10-125°C; with heat exchange connector: -10-250°C*<br>Silicon oil filling: -40-120°C, with heat exchange connector:-40-300°C* |
| Working humidity                                                                                                                        |       | 0-95%RH                                                                                                                                                 |
| Proction class                                                                                                                          |       | IP67                                                                                                                                                    |
| Dangerous condition                                                                                                                     | NEPSI | ExdIICT6(GYB16.1253X)**<br>ExiaIICT4(GYB16.1965X)**                                                                                                     |
|                                                                                                                                         | CSA   | Class I, Division 1, Group A, B, C and D T6<br>Class II, Division 1 Group E, F and G T80°C<br>Class III (No.: 80020805)*                                |
|                                                                                                                                         | IECEX | Ex db IIC T6 Gb, Ex tb IIIC T80 Db (IECEX NEP 19.0042X)*<br>Ex ia IIC T4 Ga (IECEX NEP 19.0042X)*                                                       |
| *Using heat exchange connector may lead to zero offset and temperature drift. The degree depends on mounting position and filling fluid |       |                                                                                                                                                         |
| **Please contact the engineer for details                                                                                               |       |                                                                                                                                                         |

For any changes to the specifications of this catalogue , the latest version shall prevail.

**Technical specifications****EMC environment**

| NO. | Test items                                                           | Basic standards           | Test conditions                                          | Performance level |
|-----|----------------------------------------------------------------------|---------------------------|----------------------------------------------------------|-------------------|
| 1   | Radiated interference                                                | GB/T 9254/CISPR22         | 30MHz-1000MHz                                            | OK                |
| 2   | Conducted interference (DC power port)                               | GB/T 9254/CISPR22         | 0.15MHz-30MHz                                            | OK                |
| 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)          |
| 5   | 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)<br>2kV(Line to ground)<br>(1.2us/50us) | B(Note2)          |
| 8   | 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 performance within the limits of normal technical specifications.

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



## Menu function

## 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   |
| mmH <sub>2</sub> O                          | Millimeter of water@4°C        |
| mH <sub>2</sub> O                           | Meter of water@4°C             |
| inH <sub>2</sub> O                          | Inches of water@4°C            |
| ftH <sub>2</sub> O                          | Feet of water@4°C              |
| inHg                                        | Inches of mercury@0°C          |
| mHg                                         | Meter mercury column@0°C       |
| TORR                                        | Torr                           |
| mbar                                        | Millibar                       |
| g/cm <sup>2</sup>                           | Gram per square centimeter     |
| kg/cm <sup>2</sup>                          | Kilogram per square centimeter |
| Pa                                          | PA                             |
| ATM                                         | 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 $\sqrt{\quad}$ | 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 caused 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                                                                          |

## Product selection instruction

### Sensor select instruction

| Code  | Nominal value | Description                                            |
|-------|---------------|--------------------------------------------------------|
| S403G | 40kPa         | Range -40kPa-40kPa, smallest calibratable span 10kPa   |
| S254G | 250kPa        | Range -100kPa-250kPa, smallest calibratable span 25kPa |
| S105G | 1MPa          | Range -100kPa-1MPa, smallest calibratable span 100kPa  |
| S305G | 3MPa          | Range -100kPa-3MPa, smallest calibratable span 300kPa  |

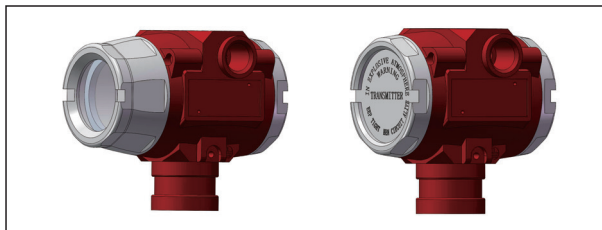
Adjust requirements: lower range value (LRV) and upper range value (URV) can be adjusted within the scope of the upper and lower range limit, minimum measuring range ≤ |URV - LRV| ≤ maximum measuring range

| Code | Position    | Instruction                  |
|------|-------------|------------------------------|
| F    | Sensor seal | Stainless steel welding seal |

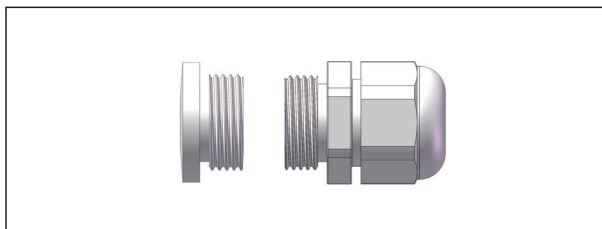
### Electrical connection

| Code | Item                  | Description                                                                                                          |
|------|-----------------------|----------------------------------------------------------------------------------------------------------------------|
| T1   | Electrical connection | Aluminum-alloy terminal, 2 cable entry M20*1.5(F), red body, white cover                                             |
| T2   |                       | Aluminum-alloy terminal, 2 cable entry M20*1.6(F), blue body, white cover                                            |
| R1   | Cable entry protector | 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 |

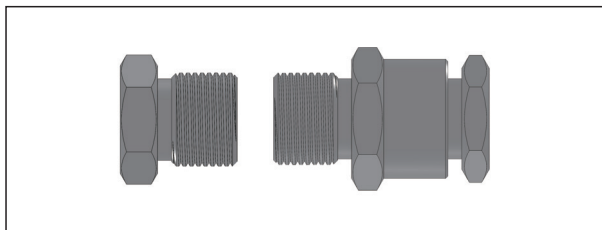
### Housing(T1)



### Standard cable entry protective adaptor(R1)



### Flame proof cable entry protective adaptor(R2/R3)



## Product selection instruction

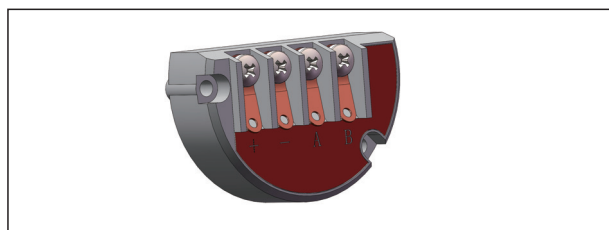
### Transmission module

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

### Display module (C)



### Terminals



### Isolation diaphragm

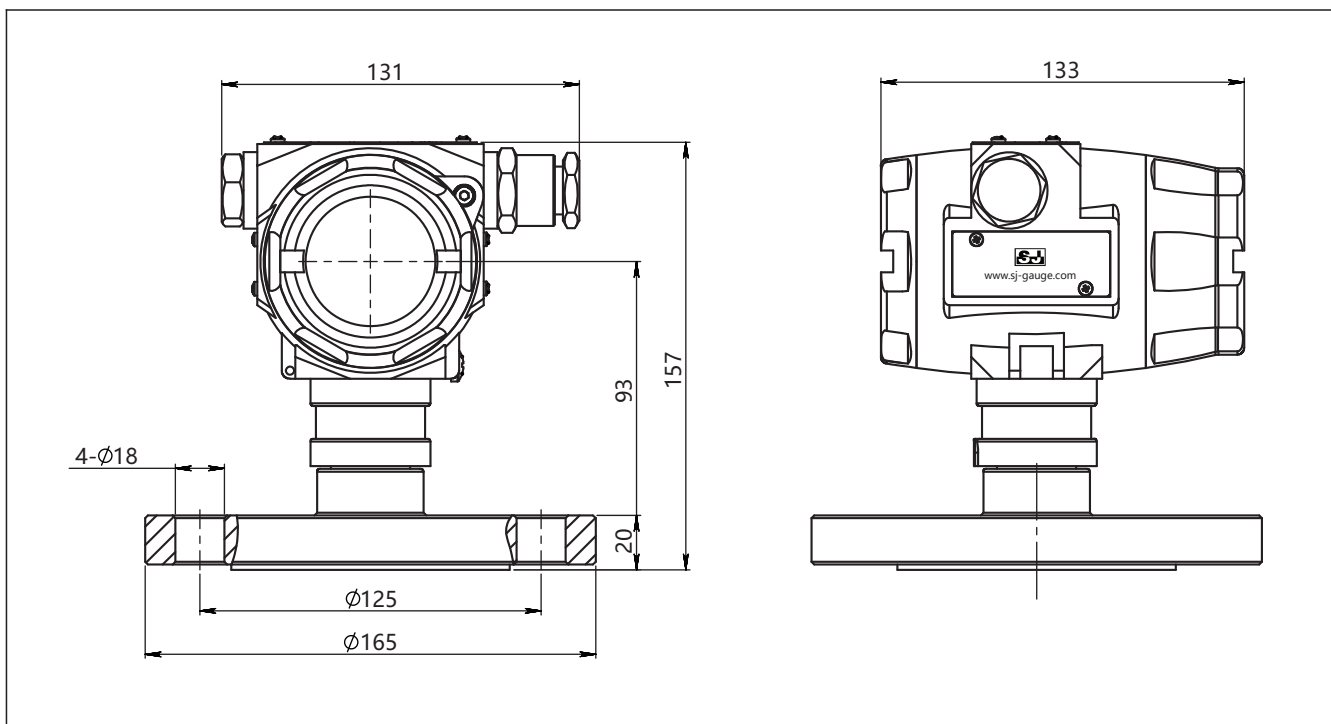


### Process connection select instruction

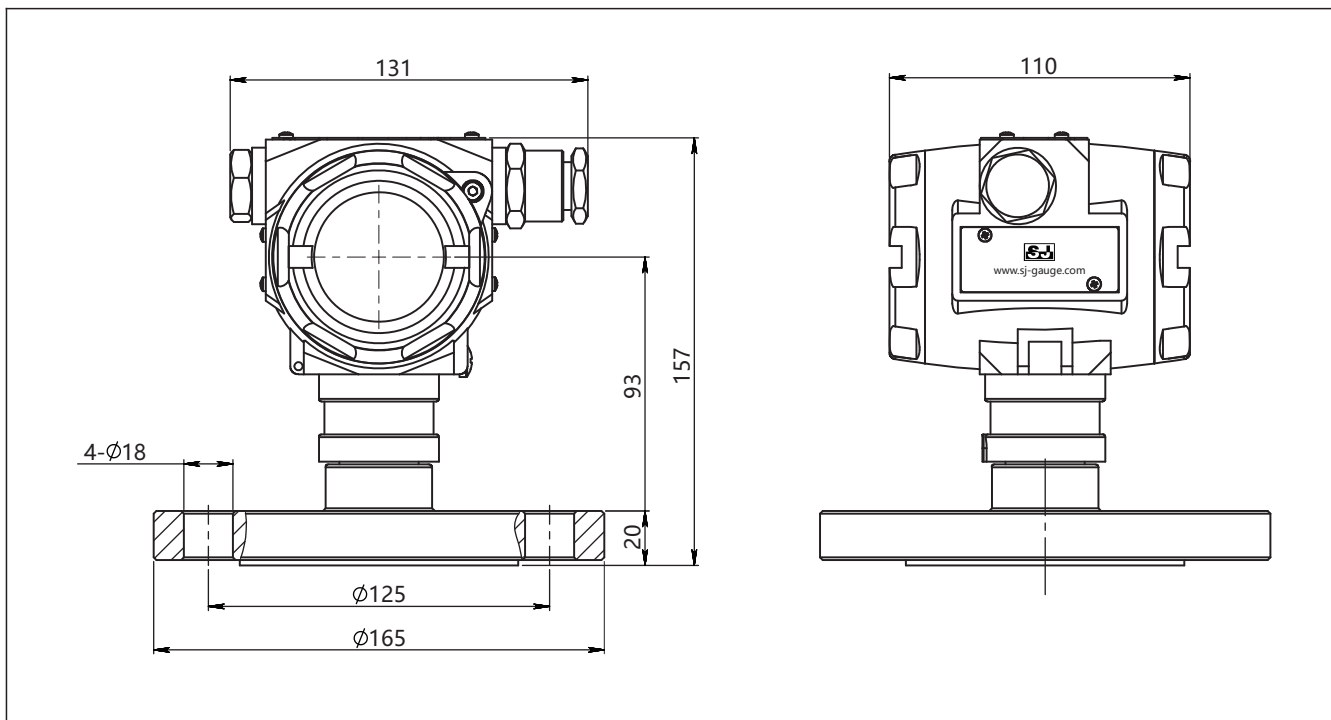
| Code | Items                        | Description                                                       |
|------|------------------------------|-------------------------------------------------------------------|
| 4    | Process connector material   | Stainless steel, SUS304                                           |
| 6    |                              | Stainless steel, SUS316                                           |
| NT   | Connection type              | Standard connection, medium temperature: -25-85°C                 |
| HT   |                              | With Cooling Element, suitable for medium temperature -40-150°C   |
| UT   |                              | With capillary element, suitable for medium temperature -40-300°C |
| S    | Isolation fluid filling      | Silicon oil                                                       |
| H    |                              | High-temperature silicon oil                                      |
| S    | Isolation diaphragm material | Stainless steel, SUS316L                                          |
| T    |                              | Tantalum                                                          |
| P    |                              | SUS316 + PTFE cover                                               |
| M    |                              | Monel                                                             |
| H    |                              | Hastelloy alloy C                                                 |
| 8    |                              | Tantalum + PTFE cover                                             |
| 9    |                              | Hastelloy C + PTFE cover                                          |

# Product drawing and dimension

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



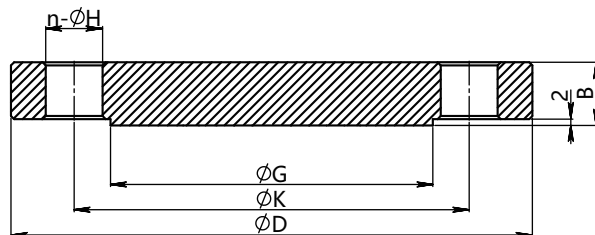
## Drawing and dimension without display(A)(unit: mm)





## Product drawing and dimension

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



| Standard                         | Specification             | Outer diameter( $\Phi D$ ) | Thickness(B)                 | Hole circumference( $\Phi K$ ) |
|----------------------------------|---------------------------|----------------------------|------------------------------|--------------------------------|
| HG/T20592-2009                   | DN50PN10                  | 165                        | 19                           | 125                            |
| HG/T20592-2009                   | DN80PN10                  | 200                        | 20                           | 160                            |
| HG/T20592-2009                   | DN100PN10                 | 200                        | 20                           | 160                            |
| Raised face diameter( $\Phi G$ ) | Hole diameter( $\Phi H$ ) | Number(n)                  | Corrugation size( $\Phi M$ ) |                                |
| 102                              | 18                        | 4                          | 56                           |                                |
| 138                              | 18                        | 8                          | 71                           |                                |
| 158                              | 18                        | 8                          | 71                           |                                |



## Ordering information chapter

| Item                  | Parameters                 | Code         | Instruction                                                                                                          | (*)fast delivery available |
|-----------------------|----------------------------|--------------|----------------------------------------------------------------------------------------------------------------------|----------------------------|
|                       | Model                      | MSSMP858-TST | Monosilicon diaphragm pressure transmitter                                                                           |                            |
| Sensor                | Separator                  | -            | Detailed specifications as following                                                                                 |                            |
|                       | Pressure range code        | S403G        | Nominal value: 40kPa                                                                                                 | *                          |
|                       |                            | S254G        | Nominal value: 250kPa                                                                                                | *                          |
|                       |                            | S105G        | Nominal value: 1000kPa                                                                                               | *                          |
|                       |                            | S305G        | Nominal value: 3000kPa                                                                                               |                            |
|                       | Pressure type              | G            | Gauge pressure type                                                                                                  | *                          |
|                       | Sensor seal                | F            | Stainless steel welding seal                                                                                         | *                          |
| Electrical connection | Separator                  | -            | Detailed specifications as following                                                                                 |                            |
|                       | Electrical connection      | T1           | Aluminum-alloy terminal, 2 cable entry M20*1.5(F), red body, white cover                                             | *                          |
|                       |                            | T2           | Aluminum-alloy terminal, 2 cable entry M20*1.6(F), blue 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                                                                            | *                          |
|                       |                            | H            | 4-20mA+HART two wire, power supply: 16.5~55VDC                                                                       | *                          |
|                       | Display                    | C            | LCD display                                                                                                          | *                          |
|                       |                            | A            | Without LCD display                                                                                                  | *                          |
| Process connection    | Separator                  | -            | Detailed specifications as following                                                                                 |                            |
|                       | Process connector material | 4            | Stainless Steel SUS304                                                                                               | *                          |
|                       |                            | 6            | Stainless steel SUS316                                                                                               | *                          |
|                       | Connection type            | NT           | Standard connection, suitable for medium temperature - 25-85°C                                                       | *                          |
|                       |                            | HT           | With cooling element, suitable for medium temperature - 40-150°C                                                     | *                          |
|                       |                            | UT           | With capillary element, suitable for medium temperature - 40-300°C                                                   | *                          |
|                       | Isolation fluid filling    | S            | Silicon oil                                                                                                          |                            |
|                       |                            | H            | High-temperature silicon oil                                                                                         | *                          |



## Ordering information chapter

|                    |                              |     |                                                                                                                                |   |
|--------------------|------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------|---|
|                    | Isolation diaphragm material | S   | SUS316L                                                                                                                        | * |
|                    |                              | T   | Tantalum                                                                                                                       |   |
|                    |                              | P   | SUS316 + PTFE cover                                                                                                            |   |
|                    |                              | H   | Hastelloy C                                                                                                                    | * |
|                    |                              | 8   | Tantalum + PTFE cover                                                                                                          |   |
|                    |                              | 9   | Hastelloy C + PTFE cover                                                                                                       |   |
|                    | Process connection           | H01 | HG/T 20592-2009 DN50PN10 Flange                                                                                                | * |
|                    |                              | H05 | HG/T 20592-2009 DN80PN10 Flange                                                                                                | * |
| Additional options | Separator                    | -   | Detailed specifications as following                                                                                           |   |
|                    | Calillary length             | LXX | Length range from 0-10m                                                                                                        |   |
|                    | Display mode                 | /D1 | According to your requirement                                                                                                  | * |
|                    | Calibration report           | /Q1 | Calibration report provide by our company                                                                                      | * |
|                    |                              | /Q2 | Calibration report provide by Taiwan authorised third party                                                                    | * |
|                    | Approvals                    | /E1 | Flame proof certificate, ExdbIICT6Gb, ExtbIICT80 Cdb, IECEx or NEPSI                                                           | * |
|                    |                              | /I1 | Intrinsic safety certificate, ExialIICT4Ga, IECEx or NEPSI                                                                     | * |
|                    |                              | /E2 | Flame proof certificate, CSA Class I, Division 1, Group A, B, C and D T6 Class II, Division 1 Group E, F and G T80°C Class III |   |
|                    |                              | /F3 | CE certificate                                                                                                                 | * |
|                    | Wetted parts treatment       | /G1 | Ungrease treatment                                                                                                             | * |
|                    |                              | /G2 | Electropolishing treatment                                                                                                     | * |

## Factory settings and parameters

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

| 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  |



## Approvals

## Factory certificate

|                            |                                               |
|----------------------------|-----------------------------------------------|
| Certification organization | Intertek                                      |
| Quality management system  | ISO9001-2015                                  |
| Scope of certification     | Design and production of pressure transmitter |
| Registration number        | 110804039                                     |

## CE

|                          |                                      |
|--------------------------|--------------------------------------|
| Certificate organization | ISET                                 |
| License scope            | MSSMP858 series pressure transmitter |
| Mark                     | CE                                   |
| EMC instruction          | 2014/30/EU                           |
| Standard                 | EN61326-1: 2013                      |
| Registration number      | IT051353LG161207                     |

## Flame proof certificate

|                            |                                                     |                                      |                                                                                                         |
|----------------------------|-----------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Certificate organization   | NEPSI                                               | IECEX                                | CSA                                                                                                     |
| License scope              | MSSMP858 pressure/differential pressure transmitter |                                      |                                                                                                         |
| Explosion-proof mark       | ExdIICT6                                            | Ex db IIC T6 Gb, Ex tb IIIC T80°C Db | Class I, Division 1, Group A, B, C and D T6<br>Class II, Division 1 Group E, F and G T80°C<br>Class III |
| Working temperature        | -20°C to +55°C                                      | -20°C to +60°C                       | -40-60°C                                                                                                |
| Maximum medium temperature | +80°C                                               |                                      |                                                                                                         |
| Registration number        | GYB16.1253X                                         | IECEX NEP 19.0042X                   | 80020805                                                                                                |

## Intrinsic safety certfite

|                                          |                                                             |                                                 |
|------------------------------------------|-------------------------------------------------------------|-------------------------------------------------|
| Certificate organization                 | NEPSI                                                       | IECEX                                           |
| License range                            | MSSMP858 series pressure/ differential pressure transmitter |                                                 |
| Explosion-proof mark                     | ExiaIICT4                                                   | Ex ia IIC T4 Ga                                 |
| Ambient temperature                      | -40°C to +60°C                                              | -20°C to +60°C                                  |
| Medium maximum temperature               | +120°C                                                      |                                                 |
| Registration number                      | GYB16.1965X                                                 | IECEX NEP 18.0008X                              |
| Intrinsically safe parameter description | Maximum input voltage:20VDC                                 | Maximum input voltage:28VDC                     |
|                                          | Maximum input current:100mA                                 | Maximum input current:93mA                      |
|                                          | Maximum input power:0.7w                                    | Maximum input power:0.65w                       |
|                                          | Maximum internal equivalent parameters Ci(uF):0             |                                                 |
|                                          | Maximum internal equivalent parameters Li(mH):0.01          | Maximum internal equivalent parameters Li(mH):0 |



## Approvals

## RoHS

|                          |                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------|
| Certificate organization | ECM                                                                                                     |
| License scope            | MSSMP858 pressure/differential pressure transmitter                                                     |
| Mark                     | RoSH                                                                                                    |
| Instruction              | 2011/65/EU                                                                                              |
| Certification criteria   | IEC62321-1:2013 IEC62321-5:2014<br>IEC62321-2:2013 IEC62321-6:2015<br>IEC62321-4:2014 IEC62321-7-1:2015 |
| Registration number      | 0H180504.SLIUQ05                                                                                        |



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For any changes to the specifications of this catalogue , the latest version shall prevail.