C S
CODE AND SPECIFICATIONS SHEET

# Single flange remote pressure transmitter

# JUN-E51

JUN-E51 single flange far transfer pressure transmitter is an ultra-high performance pressure transmitter carefully developed by using the world's advanced pressure sensor technology and packaging process, with the highest measurement accuracy of ± 0.075%. The transmitter has a built-in mono-crystalline silicon sensor, export and the DC 4～20mA signal corresponding to the measured pressure.

The transmitter is connected with the measured medium by capillary and flange, which can be used not only for ordinary gas and liquid measurement, but also for high temperature viscous, easy crystallization, differential pressure measurement with solid particles or suspended matter, highly corrosive or highly toxic media. It can be used in environments with explosion-proof requirements.

By mutual communication with intelligent terminals, various functions can be set, adjusted and monitored for export signals.

## Standard layout

### Export

Export Signal: DC 4 ～ 20mA

Output signal range: DC3.8～20.8mA (maximum)

### Supply voltage

DC16.5～55V (See Figure 1 for details)

### Load impedance

0～2199 Ω is the working status (See Figure 1 for details)

250～600 Ω HART communication、

### Communication mode

HART、PROFIBUS-PA、FOUNDATION Field-bus

### Determine the pressure range

| Scope code | Range | Measurement range |
|---|---|---|
| G40 | 40kPa | Gauge pressure,Minimum range 10kPa, -40kPa ～ 40 kPa |
| G250 | 250kPa | Gauge pressure, Minimum range 25kPa,-100kPa～ 250kPa |
| G1K | 1MPa | Gauge pressure, Minimum range 100kPa,-0.1MPa ～1MPa |
| G3K | 3MPa | Gauge pressure, Minimum range 300kPa,-0.1MPa ～3MPa |
| G10K | 10MPa | Gauge pressure, Minimum range 1MPa,-0.1MPa～ 10MPa |
| G21K | 21MPa | Gauge pressure, Minimum range 2.1MPa,-0.1MPa ～21MPa |
| G40K | 40MPa | Gauge pressure, Minimum range 4MPa,-0.1MPa～ 40MPa |
| A40 | 40kPa | Gauge pressure, Minimum range 20kPa,0kPa～ 40kPa |
| A250 | 250kPa | Gauge pressure, Minimum range 50kPa,0kPa～ 250kPa |
| A1K | 1MPa | Gauge pressure, Minimum range 100kPa,0MPa～ 1MPa |
| A3K | 3MPa | Gauge pressure, Minimum range 300kPa,0MPa～ 3MPa |

### Transmitter body pressure limit

From the vacuum to the rated working pressure.

### Use the temperature range

Range of use:Minimum temperature depends on filling fluid, maximum temperature 85℃.

Integrated LCD display: -20～70℃

Temperature range of the measured medium: see Table 1 for details

### Use humidity range

5%～100%RH@ 40℃

### Storage temperature range

-40～110℃,Integrated LCD display: -40～85℃

### Levels of protection

IP67

### Failure alarm signal

When the added pressure exceeds the upper limit of range, export alarm current value, lower limit to 3.8mA and upper limit to 20.8mA.

### Precision

±0.075%、±0.1%(See Table 2 for details)

### Temperature characteristic

Total impact volume in the range of-20 to 80℃: ± (0.1+0.1TD)% range upper limit

**Time index**

The total damping time constant is equal to the electronic circuit component and the sensing membrane box damping

**Long-term stability**

±0.15%range upper limit / 10 years

**Quick operation menu**

| Function | Explain |
|---|---|
| PV zero clearing | So that the current simulation export corresponds to the zero pressure value |
| zero (point) adjustment | The actual export was set to 4mA using the reference pressure |
| Full point adjustment | The actual export was set to 20mA using the reference pressure |
| Factory data reset | During a debugging error, restore the factory backup data |

**Mterial quality**

Provide liquid solution for various anti-corrosive material quality.

material quality: 316L stainless steel, 316L stainless steel gold-plated, 316L stainless steel sprayed FEP, Harbin C, tantalum, Monnell, titanium, etc

O-type sealing ring material quality: fluorine rubber

Wiring box material quality: aluminum alloy exterior spraying epoxy resin

**Seal into the liquid**

Silicone oil, high temperature silicone oil, ultra-low temperature filling fluid, sanitary filling fluid, inert filling fluid, etc

**Pressure import connection**

Flange and capillary connection, flange nominal diameter DN50～DN100 (can be customized according to user requirements)

**Distribution interface**

M20*1.5 、1/2NPT

**Weight**

According to the diameter size of the assigned flange, the weight is about 7kg～12kg.

## Additional instructions

**ATEX explosion-proof certification**

Grade 1, zone 1 / 2, Group G, and Ex db IC T6 Ga/Gb

-30℃≤Tamb≤+75℃ Process temperature≤85℃

Grade 1, zone 1 / 2, Group G, and Ex db IIC T5 Ga/Gb

-30℃≤Tamb≤+80℃ Process temperature≤100℃

Grade 1, zone 1 / 2, Group G, and Ex db ⅡIC T4 Ga/Gb

-30℃≤Tamb≤+80℃ Process temperature≤110℃

Grade 1, zone 2, Group D, and Ex tb IIC T85℃ Db

-30℃≤Tamb≤+75℃ Process temperature≤85℃

Grade 1, Zone 2, Group D, and ExtbIIICT100C Db

-30C≤ Tamb≤+75℃ Process temperature≤100℃

Grade 1, Zone 2, Group D, and Ex tb ⅢIC T110℃Db

-30℃≤Tamb≤+75℃ Process temperature≤110℃

Note 1 to use a power cord suitable for working at a temperature 5℃ higher than the surrounding area

**ATEX Intrinsic Safety Certification**

Grade 1, zone 1, Group G, and Ex ia IIC T4 Ga

-30℃≤Tamb≤+60℃ Process temperature=105℃

Electrical parameters: Ui=30V,Li =93mA, Pi=1W,Ci=5nF,Li=0.5mH

Grade 1, Zone 1, Group D, Ex ia IIC T105℃ Da

-30℃≤Tamb≤+60℃ Process temperature=105℃

Group G Ex ic IIC T4 Gc in level 3

-30℃≤Tamb≤+60℃ Process temperature=110℃

Electrical parameters: Ui=30V,Ci=5nF,Li=0.5mH

**NEPSI explosion certification**

Ex d IIC T6 Gb; Ex tD A21 T85℃

-30℃≤Tamb≤+75℃ Process temperature=80℃

Ex d IC T5 Gb; Ex tD A21 T100℃

-30℃≤Tamb≤+80℃ Process temperature=95℃

Ex d IC T4 Gb; Ex tD A21 T115℃

-30℃≤Tamb≤+80℃ Process temperature=110℃

**NEPSI Intrinsic Safety Certification**

Ex ia IIC T4 Ga

-40℃≤Tamb≤+60℃ Process temperature=105℃

Ex ia IIC T4 Gc

-40℃≤Tamb≤+60℃ Process temperature=105℃

Electrical parameters:

Ui=30V,Li=100mA,Pi=1W,Ci=13nF,Li=0.5mH

(Use a power cord suitable for working at a temperature 5℃ higher than the ambient temperature)

**IECEX explosion certification**

Ex d IIC T6 Ga/Gb

-30℃≤Tamb≤+75℃ Process temperature≤85℃

Exd IIC T5 Ga/Gb

-30℃≤Tamb≤+80℃ Process temperature≤100℃

Ex d IIC T4 Ga/Gb

-30℃≤Tamb≤+80℃ Process temperature≤110℃

Ex tb IIIIC T85℃ Db
-30° C≤Tamb≤+75℃ Process temperature≤85℃
Ex tb IIC T100℃Db
-30℃≤Tamb≤+75℃ Process temperature≤100℃
Ex tb IIIC T110℃ Db
-30℃≤Tamb≤+75℃ Process temperature≤110℃
(Note - Use a power cord suitable for operating at temperatures 5℃ above the surroundings)

### IECEX safety safety safety certification

Ex ia IIC T4 Ga
-30℃≤Tamb≤+60℃ Process temperature=105℃
Electrical parameters:
Ui=30 V,Li=93mA,Pi=1W,Ci=5nF,Li=0.5mH
Ex ia IIIIC T105℃ Da
-30℃≤Tamb≤+60℃ Process temperature=105℃
Ex ic IIC T4 Gc
-30℃≤Tamb≤+60℃ Process temperature=110℃
Electrical parameters: Ui=30V,Ci=5 nF,Li=0.5mH

### Electromagnetic compatibility (EMC)

EN 61326- 1:2013
EN 61326-2-3:2013
EN 61326-2-5: 2013
Electromagnetic compatibility directive: 2014/30/EU

### RoHS attestation

EN 50581:2012
EN 62321:2013

### Debug method

HART hand operator, local button
The HART manipulator can configure almost all instrument parameters.
The local button can perform various functional configurations of the transmitter: zero (point) adjustment, plus
Set the upper and lower measurement limits of pressure and no pressure, unit selection, damping setting, export selection, etc.

### Display interface

| Identification | Explain |
|---|---|
| PV | The main screen displays process variables, the secondary screen displays percentage and progress bar. |
| mA | The main screen shows the current value, and the secondary screen shows the percentage and progress bar。 |
| % | Home screen display percentage, secondary screen display percentage and progress bar. |

R(Q)

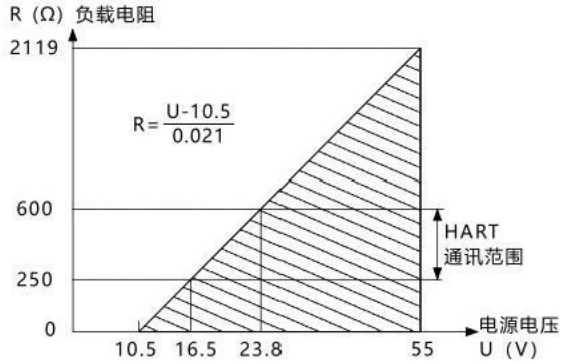



Figure 1. Power supply and load conditions

| The filling fluid | Determination of medium temperature |
|---|---|
| Silicone oil | -45～215℃ |
| High temperature silicone oil | -10～305℃ |
| Hygienic filling fluid | -10～180℃ |
| Inert filling fluid | -30～260℃ |
| Plant oil filling fluid | 0～250℃ |
| Ultra-low temperature filling fluid | -190～100℃ |

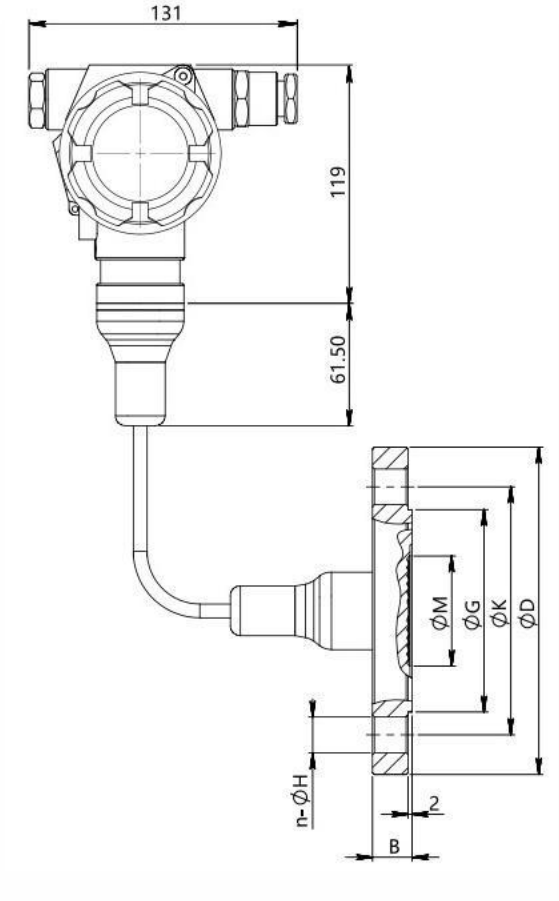
Table 1 Determine medium temperature range

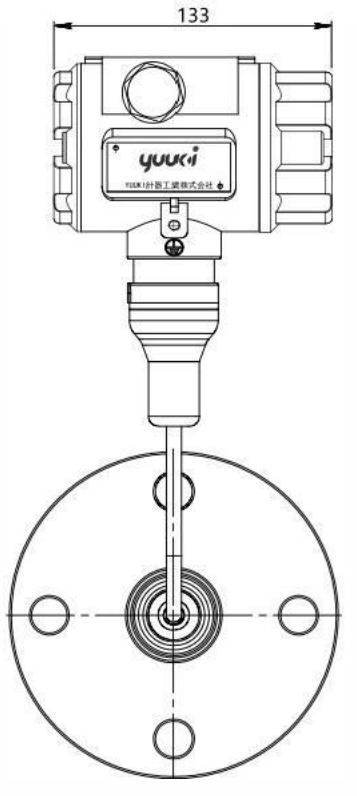
| By standards, and test base conditions, including linear, sluggish, and repetitive. Calibration temperature: 20℃± 5℃ | |
|---|---|
| Linear transmission and output accuracy | ± 0.075%, if TD> 10 (Note 10), ± (0.0075 TD)% |
| | ± 0.1%, if TD> 10), it is ± (0.01 TD)% |
| The square root export accuracy is 1.5 times the linear reference accuracy | |
| Note 1: TD= max. range / regulatory range | |

Table 2 refers to the accuracy

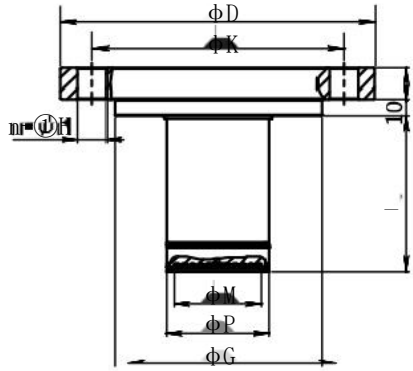
## Overall dimension drawing (in mm)

Overall size drawing with display function



Size diagram of the remote transmission flange connection




| The flange is called diameter | Nominal pressure | ΦD | ΦK | Plug-in ΦP | Flat type ΦM | ΦG | B | Supporting bolts |
|---|---|---|---|---|---|---|---|---|
| DN50 Sealing face DIN2526E flange DIN2501 | PN1.6MPa/4MPa | 165 | 125 | 66 | 42 | 102 | 20 | M16×4 |
| | PN6.4MPa | 180 | 135 | 66 | 42 | 102 | 26 | M20×4 |
| | PN10MPa | 195 | 145 | 66 | 42 | 102 | 28 | M24×4 |
| DN80 Sealing face DIN2526E flange DIN2501 | PN1.6MPa/4MPa | 200 | 160 | 66 | 42 | 138 | 24 | M16×8 |
| | PN6.4MPa | 215 | 170 | 66 | 42 | 138 | 28 | M20×8 |
| | PN10MPa | 230 | 180 | 66 | 42 | 138 | 32 | M24×8 |
| DN100 Sealing face DIN2526E flange DIN2501 | PN1MPa/1.6MPa | 220 | 180 | 77 | 42 | 158 | 22 | M16×8 |
| | PN2.5MPa/4MPa | 235 | 190 | 77 | 42 | 162 | 26 | M20×8 |
| DN2″ The ANSI B16.5 RF type | 150psi | 152.4 | 120.6 | 66 | 42 | 92.1 | 17.4 | M16×4 |
| | 300psi | 165.1 | 127 | 66 | 42 | 92.1 | 20.6 | M16×8 |
| | 600psi | 165.1 | 127 | 66 | 42 | 92.1 | 31.75 | M16×8 |
| DN3″ The ANSI B16.5 RF type | 150psi | 190.5 | 152.4 | 66 | 42 | 127 | 22.2 | M16×4 |
| | 300psi | 209.5 | 168.3 | 66 | 42 | 127 | 27 | M20×8 |
| | 600psi | 209.5 | 168.3 | 66 | 42 | 127 | 38.05 | M20×8 |
| DN4″ The ANSI B16.5 RF type | 150psi | 229 | 191 | 77 | 42 | 157 | 30 | M16×8 |
| | 300psi | 255 | 200 | 77 | 42 | 157 | 32 | M20×8 |

| Order number | Project | Code | Content |
|---|---|---|---|
| 1 | Model | JUN-E51 | Single flange remote pressure transmitter |
| 2 | Accuracy | B | ±0.075% |
| | | C | ±0.1% |
| 3 | Range | G40 | Gauge pressure, 0 to 40kPa,Minimum range 4kPa |
| | | G250 | Mege pressure, 0 to 250kPa,Minimum range 25kPa |
| | | G1K | Gauge pressure, 0 to 1MPa,Minimum range 100kPa |
| | | G3K | Gauge pressure, 0 to 3MPa,Minimum range 300kPa |
| | | G10K | Gauge pressure, 0 to 10MPa,Minimum range 1MPa |
| | | G21K | Meter pressure, 0～21MPa,Minimum range 2.1MPa |
| | | G40K | Gauge pressure, 0 to 40MPa,Minimum range 4MPa |
| | | A40 | Stpressure, 0 to 40kPa,Minimum range 20kPa |
| | | A250 | Stpressure, 0 to 250kPa,Minimum range 50kPa |
| | | A1K | Stpressure, 0～1MPa,Minimum range 100kPa |
| | | A3K | Stpressure, 0～3MPa,Minimum range 300kPa |
| 4 | Communicatio n mode | H | 4～20mA + HART, made in two lines |
| | | P | PROFIBUS-PA (ask separately for delivery date) |
| | | F | FOUNDATION Field-bus (Request separately) |
| 5 | Explosion-proof | N | No explosion-proof function |
| | | G | PCEC explosion suppression |
| | | D | NEPSI explosion suppression |
| | | A | NEPSI Ben Ann |
| | | E | ATEX explosion suppression |
| | | B | ATEX Ben Ann |
| | | M | IECEX explosion suppression |
| | | W | IECEX Ben Ann |
| 6 | Show | N | No display |
| | | L | LCD liquid-crystal display |
| | | O | OLED display (ask later) |
| 7 | Ontology film sheet Mass and filling fluid | S | SUS 316L Membrane sheet, silicone oil filling fluid |
| 8 | Type O sealing ring material quality | F | Fluorine-rubber |

| Order number | Project | Code | content |
|---|---|---|---|
| 9 | Far spread flange | A | DN 50 DIN 2501 / HG 20592, Type E DIN 2526 sealing surface, SUS 316L diaphragm |
| | | B | DN 50 DIN 2501 / HG 20592, Type E DIN 2526 sealing surface, Hab C diaphragm |
| | | C | DN50 DIN 2501 / HG20592, Type E DIN2526 sealing surface, tantalum diaphragm 200℃ |
| | | D | DN50 DIN 2501 / HG20592, type E DIN2526 sealing face, moner diaphragm |
| | | E | DN 80 DIN 2501 / HG 20592, Type E DIN 2526 sealing surface, SUS 316L diaphragm |
| | | F | DN 80 DIN 2501 / HG 20592, Type E DIN 2526 sealing surface, Hab C diaphragm |
| | | G | DN80 DIN 2501 / HG20592, Type E DIN2526 seal surface, tantalum diaphragm (temperature 200℃) |
| | | H | DN80 DIN 2501 / HG20592, type E DIN 2526 sealing face, moner diaphragm |
| | | I | DN 100 DIN 2501 / HG 20592, Type E DIN 2526 sealing surface, SUS 316L diaphragm |
| | | J | DN 100 DIN 2501 / HG 20592, Type E DIN 2526 sealing surface, Hab C diaphragm |
| | | K | DN 100 DIN 2501 / HG 20592, Type E DIN 2526 seal surface, tantalum diaphragm (temperature 200℃) |
| | | L | DN100 DIN 2501 / HG20592, type E DIN2526 sealing face, moner diaphragm |
| | | M | DN 2 ″ ANSI B 16.5/HG 20615, RF type ANSI B 16.5, and SUS 316L diaphragm |
| | | N | DN 2 ″ ANSI B 16.5/HG 20615, RF type ANSI B 16.5, Haralloy diaphragm |
| | | O | DN 2 ″ ANSI B 16.5/HG 20615, RF type ANSI B 16.5, tantalum diaphragm (temperature 200℃) |
| | | P | DN 2 ″ ANSI B 16.5/HG 20615, RF type ANSI B 16.5, Moner diaphragm |
| | | Q | DN 3 ″ ANSI B 16.5/HG 20615, RF type ANSI B 16.5, SUS 316L diaphragm |
| | | R | DN 3 ″ ANSI B 16.5/HG 20615, RF type ANSI B 16.5, Harbin alloy C film |
| | | S | DN 3 ″ ANSI B 16.5/HG 20615, RF type ANSI B 16.5, tantalum diaphragm (temperature 200℃) |
| | | T | DN 3 ″ ANSI B 16.5/HG 20615, RF type ANSI B 16.5, Moner diaphragm |
| | | U | DN 4 ″ ANSI B 16.5/HG 20615, RF type ANSI B 16.5, and SUS 316L diaphragm |
| | | V | DN 4 ″ ANSI B 16.5/HG 20615, RF type ANSI B 16.5, Harbin alloy C film |
| | | W | DN 4 ″ ANSI B 16.5/HG 20615, RF type ANSI B 16.5, tantalum diaphragm (temperature 200℃) |
| | | Y | DN 4 ″ ANSI B 16.5/HG 20615, RF type ANSI B 16.5, Moner diaphragm |
| | | 1 | DN 50 DIN 2501 / HG 20592, Type E DIN 2526 sealing surface, titanium diaphragm |
| | | 2 | DN 80 DIN 2501 / HG 20592, Type E DIN 2526 sealing surface, titanium diaphragm |
| | | 3 | DN100 DIN 2501 / HG20592, Type E DIN2526 sealing surface, titanium diaphragm |
| | | 4 | DN 2 ″ ANSI B 16.5/HG 20615, RF type ANSI B 16.5, titanium film |
| | | 5 | DN 3 ″ ANSI B 16.5/HG 20615, RF type ANSI B 16.5, titanium film |
| | | 6 | DN 4 ″ ANSI B 16.5/HG 20615, RF type ANSI B 16.5, titanium diaphragm |

| Order number | Project | Code | Content |
|---|---|---|---|
| 10 | Flange rated pressure and material quality | 1 | PN 1MPa/4MPa,DIN2501/HG20592,SUS304 |
| | | 2 | PN 6.4MPa,DIN2501/HG20592,SUS304 |
| | | 3 | PN 10MPa,DIN2501/HG20592, SUS 304 |
| | | 4 | PN 1MPa / 1.6MPa, DIN 2501 / HG 20592 (DN 100 flange as applicable), SUS 304 |
| | | 5 | PN 2.5MPa / 4MPa, DIN 2501 / HG 20592 (DN 100 flange as applicable), SUS 304 |
| | | 6 | Class 150,ANSI B16.5/HG20615,SUS304 |
| | | 7 | Class 300, ANSI B16.5/HG20615, SUS304 |
| | | 8 | Class 600,ANSI B16.5/HG20615, SUS304 |
| | | 9 | Class 150, ANSI B16.5/HG20615 (4 ″ flange as applicable), SUS304 |
| | | 0 | Class 300, ANSI B16.5/HG 20615 (4 ″ flange as applicable), SUS 304 |
| | | A | PN 1MPa/4MPa,DIN2501/HG20592,SUS316 |
| | | B | PN 6.4MPa,DIN2501/HG20592, SUS316 |
| | | C | PN 10MPa,DIN2501/HG20592, SUS 316 |
| | | D | PN 1MPa / 1.6MPa, DIN 2501 / HG 20592 (DN 100 flange as applicable), SUS 316 |
| | | E | PN 2.5MPa / 4MPa, DIN 2501 / HG 20592 (DN 100 flange as applicable), SUS 316 |
| | | F | Class 150,ANSI B16.5/HG20615, SUS 316 |
| | | G | Class 300,ANSI B16.5/HG20615, SUS316 |
| | | H | Class 600,ANSI B16.5/HG20615, SUS316 |
| | | I | Class 150, ANSI B 16.5/HG 20615 (4 ″ flange as applicable), SUS 316 |
| | | J | Class 300, ANSI B16.5/HG20615 (4 ″ flange as applicable), SUS316 |
| 11 | Insert tube | 0 | Flat type |
| | | 1 | Insertion, liquid diaphragm material quality SUS 316L, cylinder material quality SUS 316, insertion length 50mm |
| | | 2 | Insertion, liquid diaphragm material quality SUS 316L, cylinder material quality SUS 316, insertion length 100mm |
| | | 3 | Insertion, liquid diaphragm material quality SUS 316L, cylinder material quality SUS 316, insertion length 150mm |
| | | 4 | Inset, liquid diaphragm material quality Hell C, cylinder material quality SUS 316, insert length 50mm |
| | | 5 | Insertion, liquid diaphragm material quality Hell C, cylinder material quality SUS 316, insert length 100mm |
| | | 6 | Insertion, liquid diaphragm material quality Hell C, cylinder material quality SUS 316, insertion length 150mm |
| | | 7 | Insertion type, liquid diaphragm material quality tantalum, barrel material quality SUS316, insertion length 50mm |
| | | 8 | Insertion type, liquid diaphragm material quality tantalum, barrel material quality SUS316, insertion length 100mm |
| | | 9 | Insertion type, liquid diaphragm material quality tantalum, barrel material quality SUS316, insertion length 150mm |

| Order number | Project | Code | Content |
|---|---|---|---|
| 11 | Insert tube | A | Insertion, liquid membrane material quality Monnell, cylinder material quality SUS316, insertion length 50mm |
| | | B | Insertion, liquid membrane material quality Monnell, cylinder material quality SUS316, insertion length 100mm |
| | | C | Insertion, liquid membrane material quality Monnell, cylinder material quality SUS316, insertion length 150mm |
| | | D | Insertion type, liquid diaphragm material quality titanium, cylinder material quality SUS316, insertion length 50mm |
| | | E | Insertion type, liquid diaphragm material quality titanium, cylinder material quality SUS316, insertion length 100mm |
| | | F | Insertion type, liquid diaphragm material quality titanium, cylinder material quality SUS316, insertion length 150mm |
| 12 | Seal into the liquid | K | Silicone oil-45～215℃ |
| | | L | High temperature silicone oil-10～305℃ |
| | | M | Hygienic filling fluid-10～180℃ |
| | | N | Inert filling fluid-30～260℃ |
| | | O | Plant oil filling fluid0～250℃ |
| | | P | Ultra-low temperature filling fluid-190～100℃ |
| | | X | According to the user's requirements are customized |
| 13 | Length of capillary And the material quality | 00 | No capillary tube, direct-mounted type |
| | | 01 | 1m, SUS304 |
| | | 02 | 2m, SUS304 |
| | | 03 | 3m, SUS304 |
| | | ..... | |
| | | A1 | 1m, SUS316 |
| | | A2 | 2m, SUS316 |
| | | A3 | 3m, SUS316 |
| | | | |
| 14 | Capillary sheath | N | not have |
| | | P | PVC sheath |
| 15 | Flange liquid surface handle | NN | Not have |
| | | 20 | DN 50 / 2 ″ SUS 316L diaphragm coated with PFA (temperature 260℃) |
| | | 21 | DN 80 / 3 ″ SUS 316L diaphragm coated with PFA (temperature 260℃) |
| | | 22 | DN 100 / 4 ″ SUS 316L diaphragm coated with PFA (temperature 260℃) |
| | | 30 | DN 50 / 2 ″ SUS 316L diaphragm with PTFE membrane (temperature 200℃) |
| | | 31 | DN 80 / 3 ″ SUS 316L diaphragm with PTFE membrane (temperature 200℃) |

| Order number | Project | Code | Content |
|---|---|---|---|
| 15 | Flange liquid surface handle | 32 | DN 100 / 4 ″ SUS 316L diaphragm with PTFE membrane (temperature 200℃) |
| | | 40 | The DN 50 / 2 ″ SUS 316L diaphragm was coated with PFA (temperature 260℃) with an insertion depth of 50mm |
| | | 41 | DN 80 / 3 ″ SUS 316L diaphragm was coated with PFA (temperature 260℃) with a depth of 50mm |
| | | 42 | DN 100 / 4 ″ SUS 316L diaphragm coated with PFA (temperature 260℃) with insertion depth of 50mm |
| | | 43 | DN 50 / 2 ″ SUS 316L diaphragm was coated with PFA (temperature 260℃) with a depth of 100mm |
| | | 44 | The DN 80 / 3 ″ SUS 316L diaphragm was coated with PFA (temperature 260℃) with an insertion depth of 100mm |
| | | 45 | DN 100 / 4 ″ SUS 316L diaphragm coated with PFA (temperature 260℃), insertion depth of 100mm |
| | | 46 | DN 50 / 2 ″ SUS 316L diaphragm was coated with PFA (temperature 260℃) with a depth of 150mm |
| | | 47 | The DN 80 / 3 ″ SUS 316L diaphragm was coated with PFA (temperature 260℃) with an insertion depth of 150mm |
| | | 50 | DN 100 / 4 ″ SUS 316L diaphragm coated with PFA Temperature 260℃) with insertion depth of 150mm |
| | | 60 | Anti-vacuum treatment Temperature 120℃, working pressure 150 kPa absolute pressure) |
| | | 70 | The DN50 / 2 ″ SUS316L diaphragm is gold-plated |
| | | 71 | The DN 80 / 3 ″ SUS 316L diaphragm is gold-plated |
| | | 72 | DN 100 / 4 ″ SUS 316L sheet gold plated |
| | | 80 | No oil treatment |
| | | 81 | Water ban treatment |
| 16 | Distribution connection | T1 | Two M20 * 1.5 internal thread electrical interfaces |
| | | R1 | Two M20 * 1.5 internal thread electrical interfaces, with M20 * 1.5 waterproof connector on one side and PVC material quality plug head on the other side |
| | | R2 | One inner thread 1 / 2 NPT, the other side with stainless steel material quality plug |
| | | R3 | One inner thread M20 * 1.5, and the stainless steel material quality plug on the other side |
| 17 | Additional options -Fixed mounting fittings | -B4 | U-shaped bracket, 2 ″ tube mounting |
| 18 | Additional option- Check the report | -Q2 | Provide a nationally recognized third-party verification report |

## Matters need attention

To better perform the performance of the transmitter, please pay attention to the following before use and read the instructions.

## Note for transmitter installation

| Notice |
| --- |
| When installing the transmitter, ensure that the sealing gasket is connected in the process, not from the transmitter to the process fluid (such as fitting flange connection, connecting pipe<br>Lane, flange) connected prominent, if the sealing gasket protruding outside, may lead to liquid leakage and output errors. Do not use the transmitter beyond the specified pressure, temperature range and operating conditions of the product specification, otherwise it may cause the leakage of the product and cause serious accidents.<br>When wiring in dangerous areas, please follow the operation method specified in the explosion-proof standard instructions. |

| Notice |
| --- |
| Please do not stand on the installed transmitter, take it as a foot.foot may occur splash, causing fluid splash injury personnel.<br>Be careful of the glass display, do not use tools to hit the glass part of the digital watch head, breaking the glass may cause body injury.<br>The transmitter is heavy, please carefully install and wear safety shoes.<br>The collision transmitter may damage the sensor module. |

## Wiring notice matters

| Warning |
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| To prevent a short circuit, please do not use wet hands or in a live state of the wiring work. |

| Notice |
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| Please connect correctly according to the technical specification. Wrong wiring will cause instrument failure or irreparable damage.<br>Please use the power supply that meets the technical specification. Using the inappropriate power supply can cause instrument failure or irreparable damage. |

## Use the HART protocol equipment notice matters

If the instrument is operated by the helper (HART Communicator, etc.), set the communication interval of the server (DCS, equipment management system) for more than 8 seconds, or stop the communication between the server and the instrument. If the server communicates with the instrument repeatedly within 8 seconds, the instrument may not accept the request of the helper (may not be able to communicate with the instrument)。

If the electrical noise interference in the surrounding environment affects the HART communication with the server, please take corresponding measures, such as separating the signal cable from the noise source, improving the grounding or replacing the signal shielding cable, etc. If an analog signal of 4-20mA is used, the use will not be affected even if the HART communication is disturbed by the noise

△ Read the operation manual carefully before using this product.

△ Any change in appearance or specification due to improvement without notice. YMCL-CP51.C/3