



## features

- Compact design, strong earthquake resistance, fast response
- Sensor direct output signal: Pt100/ Pt1000, 2, 3 or 4 wires;  
Or integrated transmitter output analog signal 4... 20 mA
- Integrated transmitter independent parameter Settings, can be easily through the free PC software card configure
- Class A precision grade of the sensor element, in accordance with IEC 60751

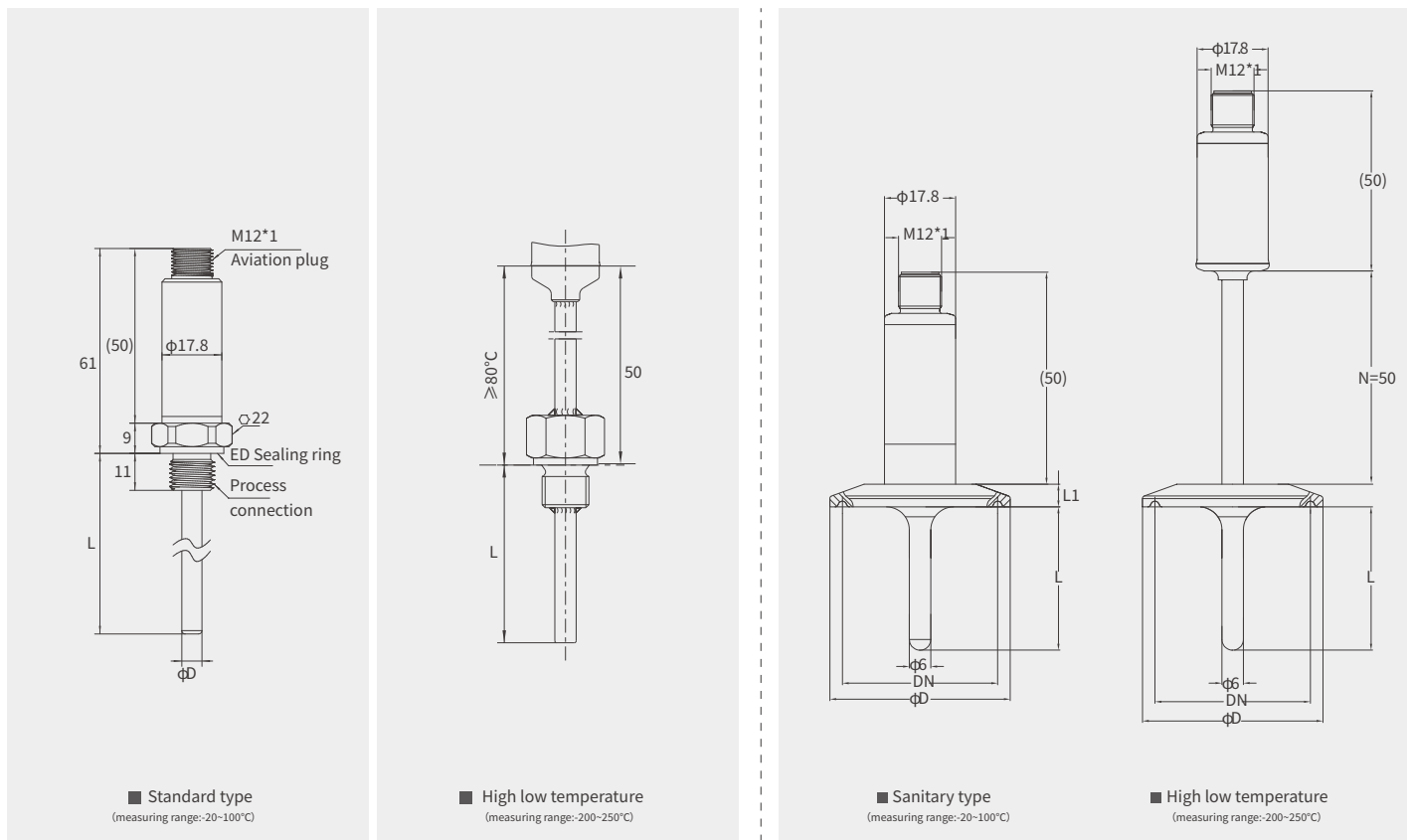
## Technical parameters

|                                    |                                           |
|------------------------------------|-------------------------------------------|
| ◇ Measurement scope:               | The custom                                |
| ◇ Linearity:                       | < 0.5%                                    |
| ◇ Accuracy:                        | Plus or minus 0.2 K + 0.5% of full scale  |
| ◇ Resolution:                      | 0.1 K.                                    |
| ◇ Cardiac compression:             | Φ6type probe and 40 bar, Φ8 probe 100 bar |
| ◇ Influence of temperature:        | 0.1 K / 10 K                              |
| ◇ Response time:                   | T90 / t-50, 2.3 seconds, 5.4 seconds      |
| ◇ Working voltage:                 | 12... 30 VDC                              |
| ◇ Electrical protection:           | Reverse pole, overload protection         |
| ◇ Sensors:                         | PT100                                     |
| ◇ Ambient temperature:             | -25... 80 °C                              |
| ◇ Level of protection:             | IP65                                      |
| ◇ Shell materials:                 | Stainless steel                           |
| ◇ Material of contact liquid part: | 304 Stainless steel                       |
| ◇ Electrical connection            | Terminal connection                       |

## product application

Machinery, equipment and tank manufacturing  
 Propulsion technology, hydraulic equipment  
 - Sanitary applications  
 Food and beverage industry  
 Pharmaceutical industry, surfactant production  
 Biotechnology and life science engineering  
 Dairy, brewery

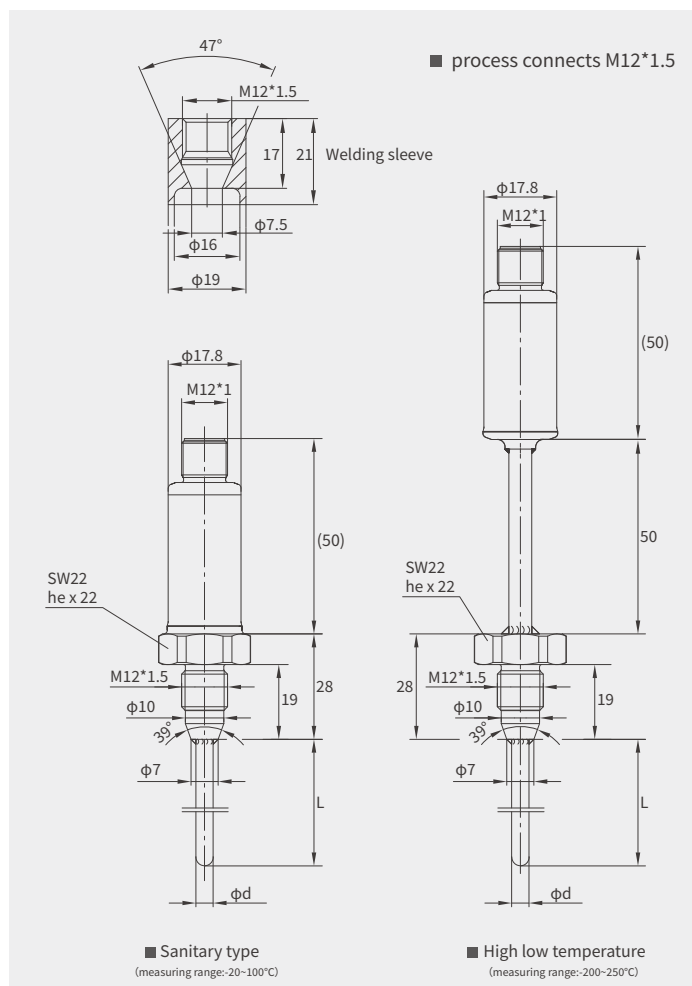
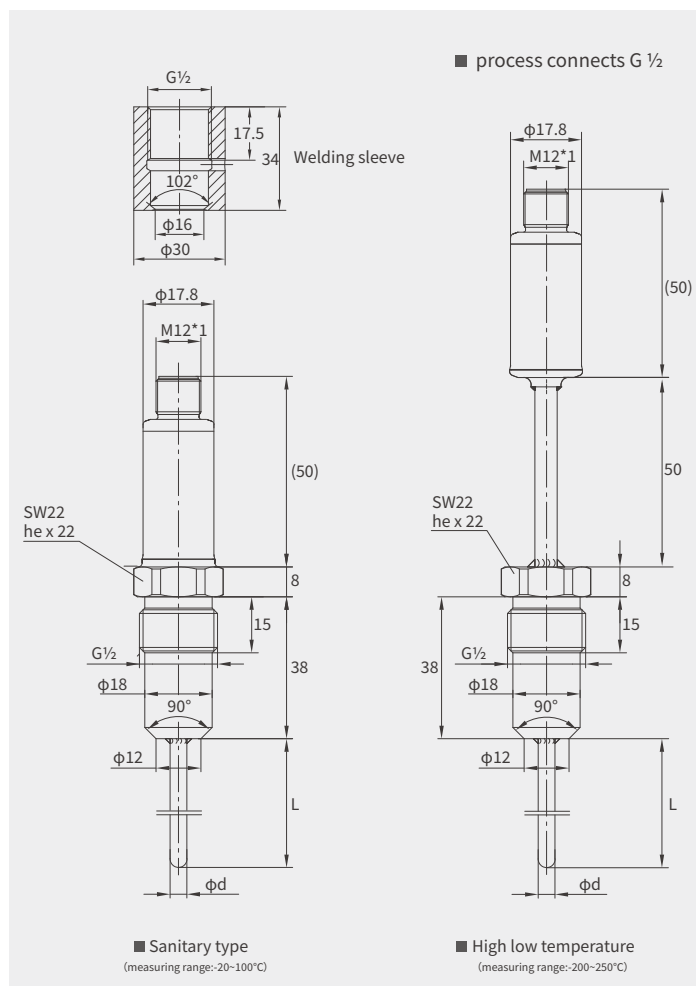
## Size chart (mm)



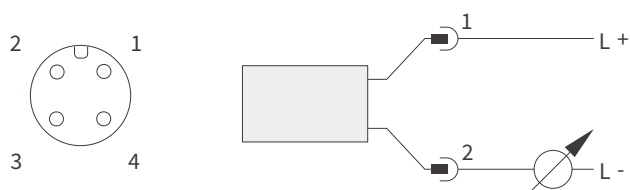
## Sanitary type (Dimension table)

| Process connection                               | Nominal width<br>(mm) | PN<br>(MPa) | size (mm) |      | weight<br>(Kg) |
|--------------------------------------------------|-----------------------|-------------|-----------|------|----------------|
|                                                  |                       |             | Ø D       | L 2  |                |
| DIN 32676, Piping in accordance with DIN 11866 A | DN 10 ... 20          | 2.5         | 34        | 6.35 | 0.2            |
|                                                  | DN 25 ... 40          | 2.5         | 50.5      | 6.35 | 0.3            |
|                                                  | DN 50                 | 1.6         | 64        | 6.35 | 0.4            |
| DIN 32676, Piping in accordance with DIN 11866 B | 13.5 ... 17.2         | 2.5         | 25        | 4.75 | 0.2            |
|                                                  | 21.3 ... 33.7         | 2.5         | 50.5      | 6.35 | 0.3            |
|                                                  | 42.4 ... 48.3         | 1.6         | 64        | 6.35 | 0.3            |
| DIN 32676, Piping in accordance with DIN 11866 C | ½" ... ¾"             | 2.5         | 25        | 4.75 | 0.2            |
|                                                  | 1" ... 1 ½"           | 2.5         | 50.5      | 6.35 | 0.3            |
|                                                  | 2"                    | 1.6         | 64        | 6.35 | 0.4            |
| chuck                                            | ½" ... ¾"             | 1.38        | 25        | 4.75 | 0.2            |
|                                                  | 1" ... 1 ½"           | 1.38        | 50.5      | 6.35 | 0.3            |
|                                                  | 2"                    | 1.38        | 64        | 6.35 | 0.4            |
|                                                  | 2 ½"                  | 1.38        | 77.5      | 6.35 | 0.5            |
|                                                  | 3"                    | 1.38        | 91        | 6.35 | 0.6            |
| ISO 2852                                         | DN 12 ... 21.3        | 1.6         | 34        | 6.35 | 0.2            |
|                                                  | DN 25 ... 38          | 1.6         | 50.5      | 6.35 | 0.3            |
|                                                  | DN 40 ... 51          | 1.6         | 64        | 6.35 | 0.4            |

## Tapered sanitary thread process connection



Selection table



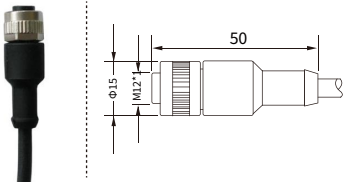
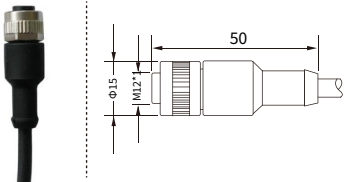
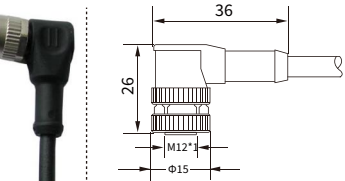
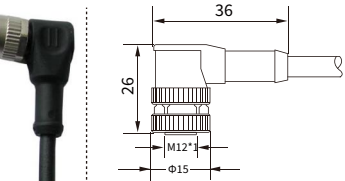
| pins | connection                         |
|------|------------------------------------|
| 1    | 24VDC                              |
| 2    | Temperature analog signal (4-20mA) |

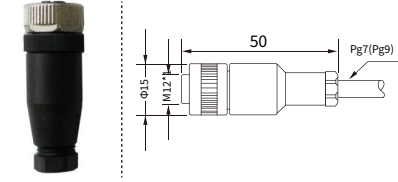
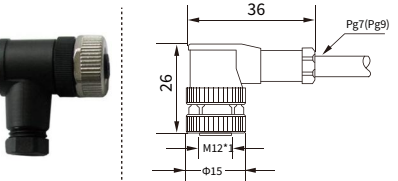
Selection table

| TM 112- | C2080   | A | 6  | 25   | G14M   | M | detailed                                                                       |
|---------|---------|---|----|------|--------|---|--------------------------------------------------------------------------------|
| TM 112  |         |   |    |      |        |   | Exquisite temperature transmitter                                              |
|         | C2080   |   |    |      |        |   | Range -20...80°C                                                               |
|         | C20100  |   |    |      |        |   | Range-20...100°C                                                               |
|         | C0100   |   |    |      |        |   | Range 0...100°C                                                                |
|         | C50100  |   |    |      |        |   | Range-50...100°C                                                               |
|         | C50150  |   |    |      |        |   | Range-50...150°C                                                               |
|         | C0150   |   |    |      |        |   | Range0...150°C                                                                 |
|         | C0100   |   |    |      |        |   | Range 0...100°C                                                                |
|         | C50200  |   |    |      |        |   | Range -50...200°C                                                              |
|         | C50250  |   |    |      |        |   | Range -50...250°C                                                              |
|         | C100100 |   |    |      |        |   | Range -100...100°C                                                             |
|         | C200100 |   |    |      |        |   | Range -200...100°C                                                             |
|         |         | A |    |      |        |   | analog range output: 4...20mA                                                  |
|         |         |   | /6 |      |        |   | Pipe diameter Φ6                                                               |
|         |         |   | /8 |      |        |   | Pipe diameter Φ8                                                               |
|         |         |   |    | /25  |        |   | probe length L 25mm                                                            |
|         |         |   |    | /50  |        |   | probe length L 50mm                                                            |
|         |         |   |    | /75  |        |   | probe length L 75mm                                                            |
|         |         |   |    | /100 |        |   | probe length L 100mm                                                           |
|         |         |   |    | --   |        |   | L=XXXmm: The probe length can be customized according to customer requirements |
|         |         |   |    |      | G14M   |   | Thread interface G1/4 External thread                                          |
|         |         |   |    |      | H50    |   | Health chuck 50.5                                                              |
|         |         |   |    |      | HG12M  |   | Health thread: G1/2 External thread                                            |
|         |         |   |    |      | HM 12M |   | Health thread: M 1/2 External thread                                           |
|         |         |   |    |      |        | M | M 12*1 aviation plug                                                           |

Note: temperature probe plus protective sleeve selection thread G1/2,  
thread smaller than G1/2 does not support probe rod sheath

## Optional accessories - electrical accessories (Factory standard: ZL02-PC02G-P)

| name                      | Outline drawing/dimension drawing (mm)                                            | material | model         |
|---------------------------|-----------------------------------------------------------------------------------|----------|---------------|
| M12*1-4Pin<br>(2m cable)  |  | PUR      | ZL02-PU02G-P  |
| M12*1-4Pin<br>(5m cable)  |                                                                                   |          | ZL02-PU05G-P  |
| M12*1-4Pin<br>(10m cable) |                                                                                   |          | ZL02-PU010G-P |
|                           |  | PVC      | ZL02-PC02G-P  |
|                           |                                                                                   |          | ZL02-PC05G-P  |
|                           |                                                                                   |          | ZL02-PC010G-P |
| M12*1-4Pin<br>(2m cable)  |  | PUR      | ZL02-PU02W-P  |
| M12*1-4Pin<br>(5m cable)  |                                                                                   |          | ZL02-PU05W-P  |
| M12*1-4Pin<br>(10m cable) |                                                                                   |          | ZL02-PU010W-P |
|                           |  | PVC      | ZL02-PC02W-P  |
|                           |                                                                                   |          | ZL02-PC05W-P  |
|                           |                                                                                   |          | ZL02-PC010W-P |

| M12* 1-4pin self-connector/size drawing (mm)                                       | model                |
|------------------------------------------------------------------------------------|----------------------|
|  | GL04<br>(4Pin joint) |
|  | WL04<br>(4Pin joint) |