

# General Pressure Transmitter **QYB100**

## Overview

QYB100 is the most popular pressure transmitter, its pressure diaphragm material is diffused silicon and the housing shell is stainless steel which is easy to install. QYB100 has high stability and reliability which could support remote transmission. It has strong anti-interference and high shock resistance, widely used in pneumatic system, hydraulic system, environmental protection and medical industry, etc.



QYB100H

## Main Features

1. Wide measuring range
2. Diffused silicon sensor and stainless steel case for multi medium
3. High accuracy and high stability
4. Strong anti-interference design
5. Remote transmission
6. Protection grade IP65



QYB100M

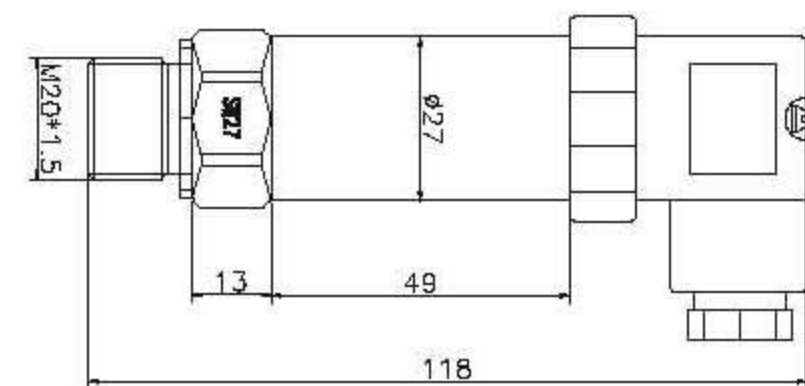


QYB100Z

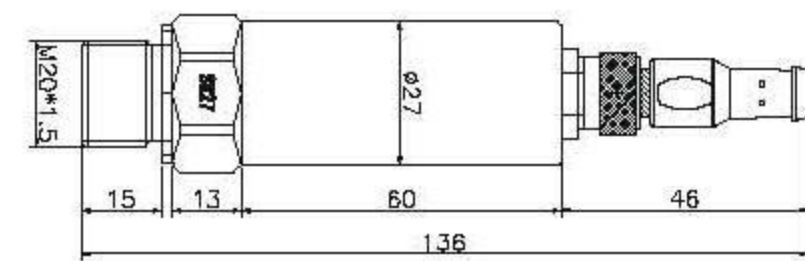
## Specification

|                       |                 |                    |  |
|-----------------------|-----------------|--------------------|--|
| Measuring Range       | -0.1~0...100MPa | Accuracy           | 0.25%F.S   |
| Stability             | ≤0.1%/year      | Overload Capacity  | 150%F.S  |
| Power Supply          | 12~30VDC        | Pressure Type      | Gauge pressure, Absolute pressure, Seal pressure |
| Protection Grade      | IP65            | Relative Humidity  | 0~90%  |
| Operating Temperature | -30°C~80°C      | Medium Temperature | -40°C~150°C                                      |

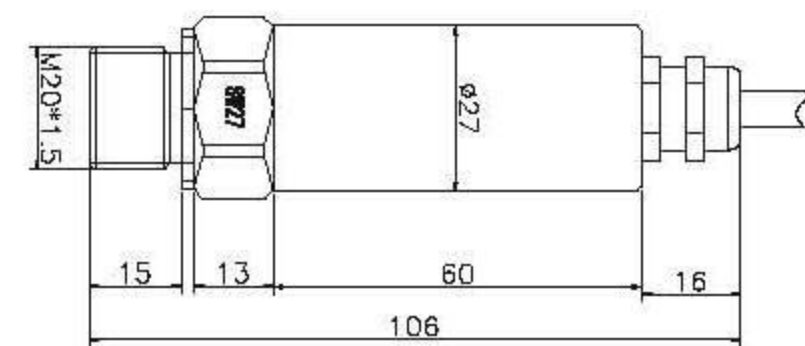
Remark: Heat radiator must be used if medium temperature over 80°C.



QYB100H



QYB100M



QYB100Z

## Selection Guide

| Selection Guide of QYB100 Pressure Transmitter |                                 |            |  |
|--|---------------------------------|------------|--|
| QYB100   |                                 |            |  |
| Electronic Connection                          | H                               | Hirschmann |  |
|  | M                               | M12        |  |
|  | Z                               | Cable      |  |
| Output Signal                                  | I                               | 4~20mA     |  |
|  | R                               | RS485      |  |
|  | V                               | 0~5V/10V   |  |
| Thread Connection                              | G12                             | G1/2       |  |
|  | G14                             | G1/4       |  |
|  | M20                             | M20*1.5    |  |
| Measuring Range                                | According to customer's request |            |  |



## QYB101 Compact Pressure Transmitter

### Overview

QYB101 is equipped with ceramic sensor and stainless steel case. It is widely used in compressor, refrigeration system, pneumatic system, equipment, etc.

### Main Features

1. Compact structure
2. Cost-effective
3. Import ceramic sensor
4. Stainless steel surface with medium, high corrosion resistance
5. Suitable for normal temperature medium, long-term and stable working
6. Shock resistance, anti-vibration, anti-corrosion

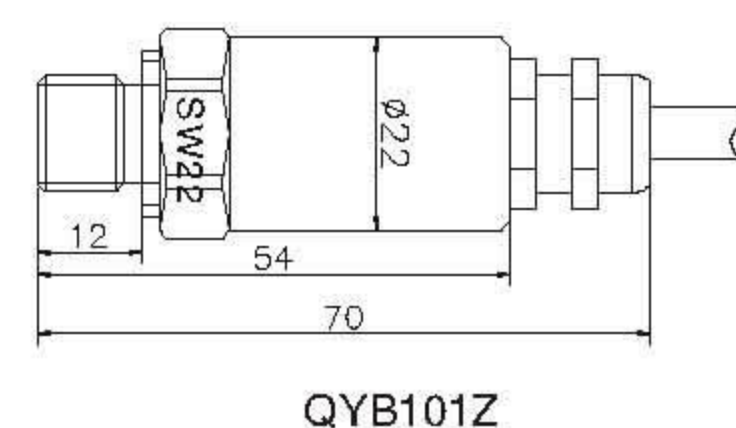
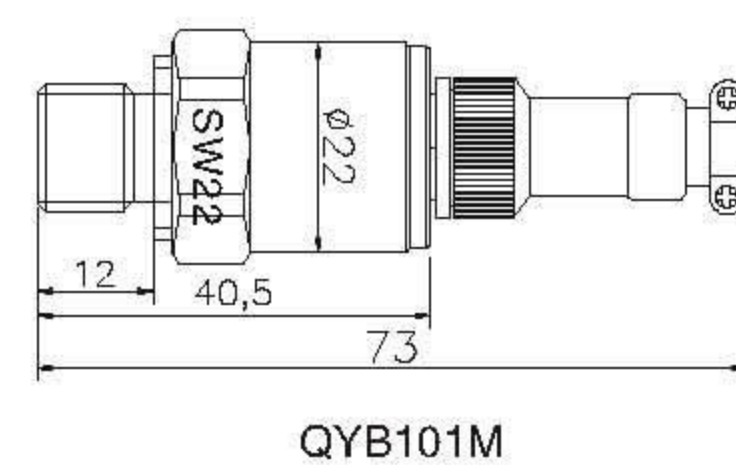
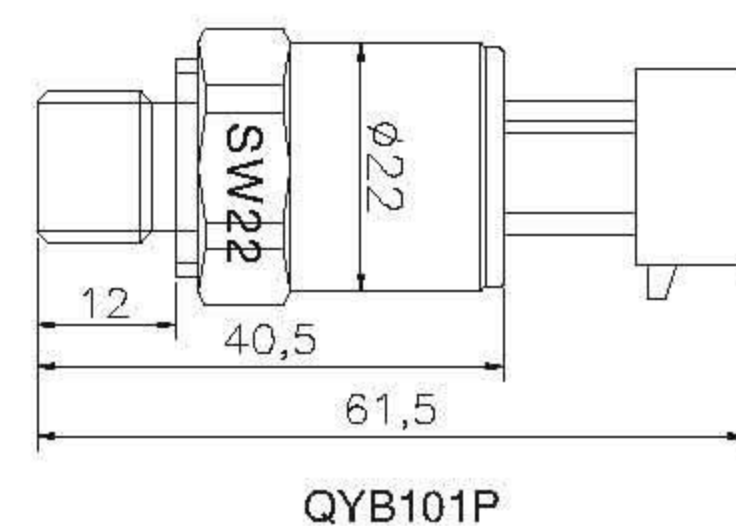


### Specification

|                       |               |                       |                       |
|-----------------------|---------------|-----------------------|-----------------------|
| Measuring Range       | 0~0.2...10MPa | Accuracy              | 0.5%F.S               |
| Stability             | ≤0.2%/year    | Overload Capacity     | 150%F.S               |
| Power Supply          | 12~30VDC      | Electronic Connecting | Packcard, Plug, Cable |
| Protection Grade      | IP65          | Relative Humidity     | 0~90%                 |
| Operating Temperature | -30℃~80℃      | Medium Temperature    | -40℃~85℃              |

### Selection Guide

| Selection Guide of QYB101 Pressure Transmitter |     |                                 |
|--|-----|---------------------------------|
| QYB101   | P   | Packcard                        |
| Electronic Connection                          | M   | Plug (length 1.5m)              |
|  | Z   | Cable (length 1.5m)             |
| Output Signal                                  | I   | 4~20mA                          |
|  | V   | 0~5V/10V                        |
| Thread Connection                              | G14 | G1/4                            |
|  | N14 | NPT1/4                          |
| Measuring Range                                |     | According to customer's request |



## Industrial Pressure Transmitter QYB102

### Overview

QYB102 is equipped with high quality diffused silicon sensor and industrial anti-explosion case. Its output and display is stable enough, used in harsh environment in petroleum and chemical engineering.

### Main Features

1. Wide measuring range
2. High Protection grade, high accuracy, high stability, high reliability
3. Digital display, LED/LCD
4. Shock resistance and anti-vibration
5. Intrinsically-safe, anti-explosion

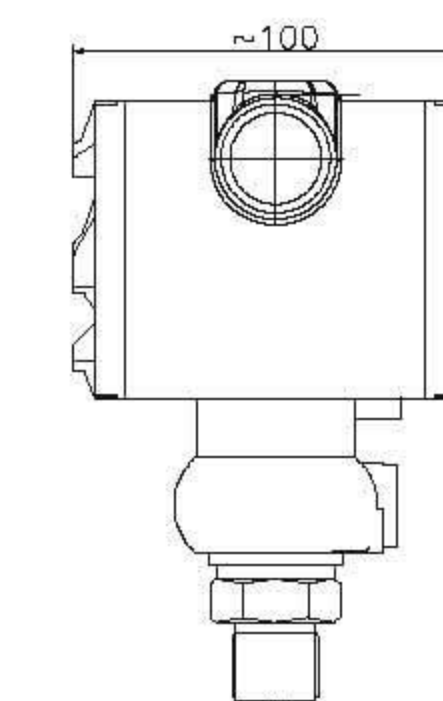
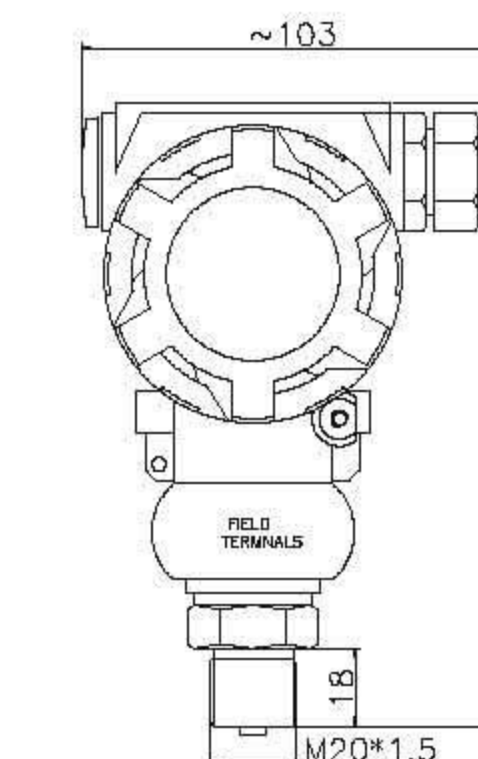
### Specification

|                       |                 |                       |                |
|-----------------------|-----------------|-----------------------|----------------|
| Measuring Range       | -0.1~0...100MPa | Accuracy              | 0.25%F.S       |
| Stability             | ≤0.1%/year      | Overload Capacity     | 150%F.S        |
| Power Supply          | 12~30VDC        | Electronic Connecting | Block Terminal |
| Protection Grade      | IP65            | Relative Humidity     | 0~90%          |
| Operating Temperature | -30℃~80℃        | Medium Temperature    | -40℃~150℃      |

Remark: Heat radiator must be used if medium temperature over 80℃.

### Selection Guide

| Selection Guide of QYB102 Pressure Transmitter |     |                                 |
|--|-----|---------------------------------|
| QYB102   | W   | Non-display                     |
| Display  | X   | LED                             |
|  | Y   | LCD                             |
| Output Signal                                  | I   | 4~20mA                          |
|  | R   | RS485                           |
|  | H   | Hart                            |
| Thread Connection                              | G12 | G1/2                            |
|  | M20 | M20*1.5                         |
| Measuring Range                                |     | According to customer's request |





## QYB103 Oilfield Pressure Transmitter

### Overview

QYB103 adopts high quality diffused silicon sensor and the industrial anti-explosion case, using integrated circuit, output 4-20mA electric current signal and modbus digital signal. It has advantages such as high accuracy, high stability, long operating life, high reliability and easy installation, which is used in pipeline pressure monitoring in petroleum and chemical engineering.

### Main Features

1. 4-20mA & RS485 double output
2. Backup battery could last 1 month after outage
3. Multi units for choice and change in workshop
4. LCD digital display, electric current/pressure/percentage
5. Span shift and zoom
6. 3051 industrial anti-explosion case

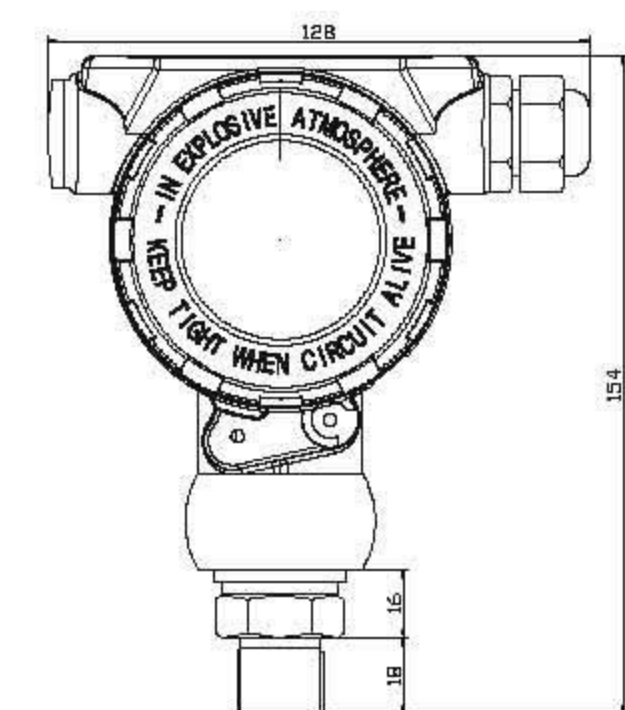
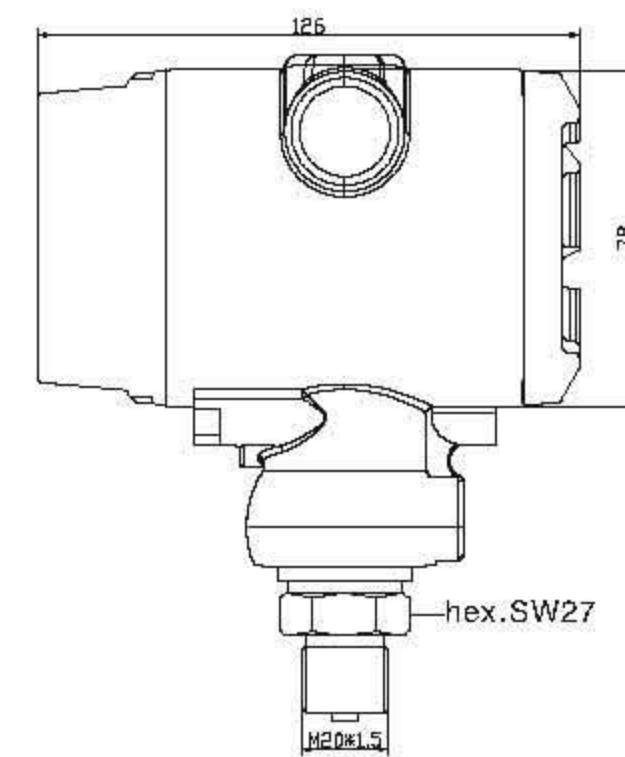
### Specification

|                       |                 |                    |                |
|-----------------------|-----------------|--------------------|----------------|
| Measuring Range       | -0.1~0...100MPa | Accuracy           | 0.25%F.S       |
| Overload Capacity     | 150%F.S.        | Output Signal      | 4-20mA & RS485 |
| Stability             | ≤0.1%/year      | Power Supply       | 12~30VDC       |
| Display               | 5 digits LCD    | Medium Temperature | -40~150℃       |
| Operating Temperature | -30℃~80℃        | Relative Humidity  | 0~90%          |

Remark: Heat radiator must be used if medium temperature over 80℃.

### Selection Guide

| Selection Guide of QYB103 Pressure Transmitter |                                 |              |
|--|---------------------------------|--------------|
| QYB103   |                                 |              |
| Output Signal                                  | I                               | 4-20mA       |
|  | R                               | 4-20mA&RS485 |
| Thread Connection                              | G14                             | G1/4         |
|  | G12                             | G1/2         |
|  | M20                             | M20*1.5      |
| Measuring Range                                | According to customer's request |              |



## Digital Pressure Transmitter QYB104

### Overview

QYB104 digital pressure transmitter is easy to operate and adjust, which is safe and reliable. It is used in fluid pressure measurement in water and electric, water supply, petroleum, chemical engineering, mechanical and hydraulic field.

### Main Features

1. 4 digits LED display with high resolution, no indication error
2. φ 100 standard dial plate
3. Stainless steel structure
4. Specification adjustment
5. 4-20mA, RS485 output

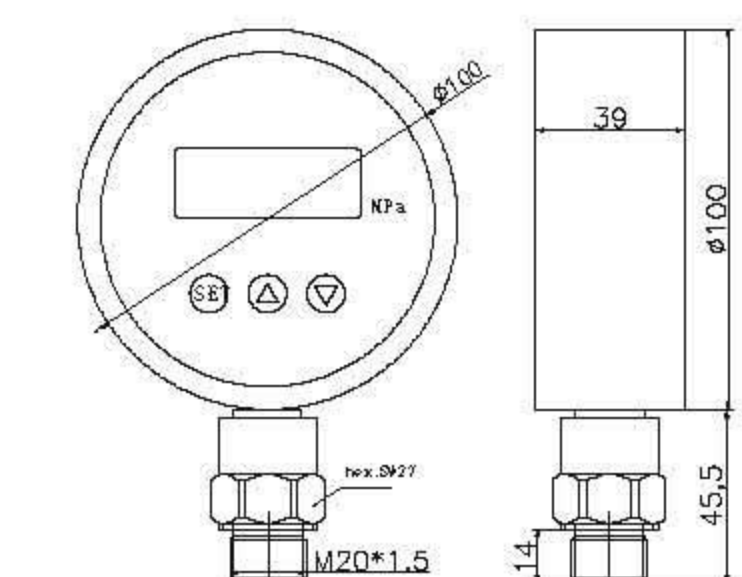
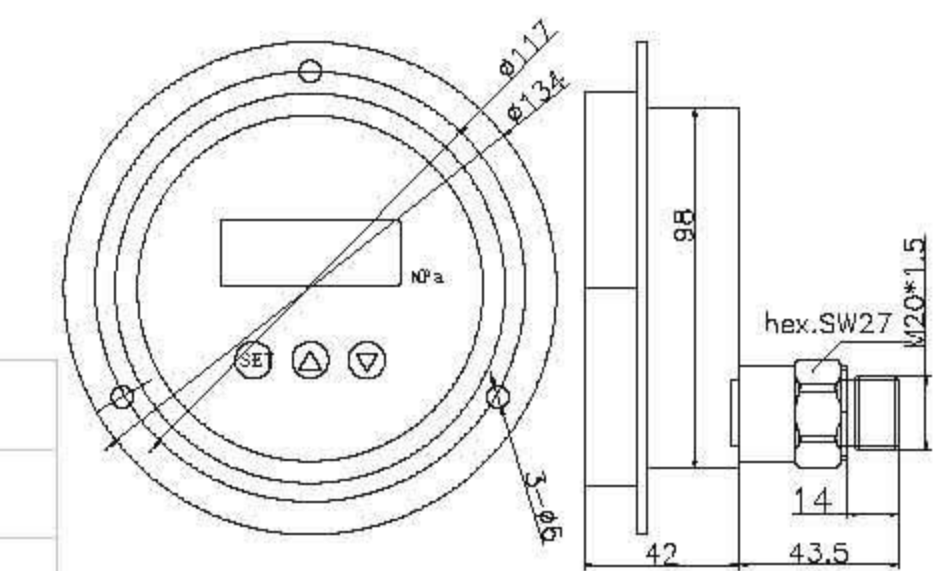
### Specification

|                       |                 |                    |                  |
|-----------------------|-----------------|--------------------|------------------|
| Measuring Range       | -0.1~0...100MPa | Accuracy           | 0.25%F.S         |
| Stability             | ≤0.1%/year      | Overload Capacity  | 150%F.S          |
| Power Supply          | 24VDC/220VAC    | Display Mode       | 0.56 "Nixie Tube |
| Display Range         | -1999~9999      | Relative Humidity  | 0~90%            |
| Operating Temperature | -30~80℃         | Medium Temperature | -40~150℃         |

Remark: Heat radiator must be used if medium temperature over 80℃.

### Selection Guide

| Selection Guide of QYB104 Pressure Transmitter |                                 |              |  |
|--|---------------------------------|--------------|--|
| QYB104   | J                               | Radial Mount |  |
|  | Z                               | Axial Mount  |  |
| Display  | I                               | 4-20mA       |  |
|  | R                               | RS485        |  |
| Thread Connection                              | G14                             | G1/4         |  |
|  | G12                             | G1/2         |  |
|  | M20                             | M20*1.5      |  |
| Measuring Range                                | According to customer's request |              |  |






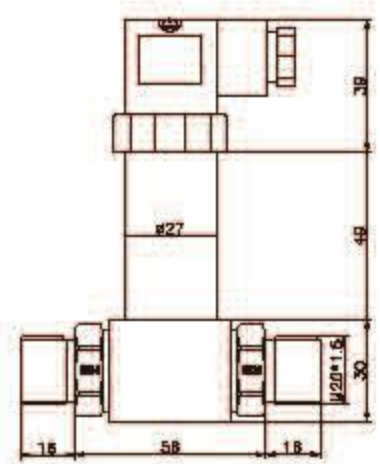

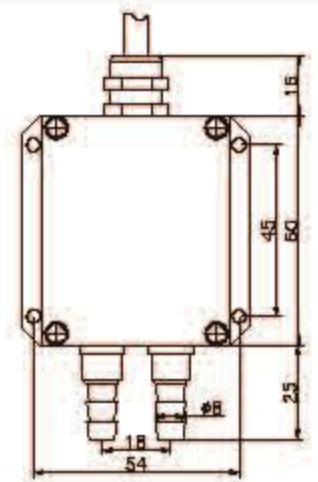

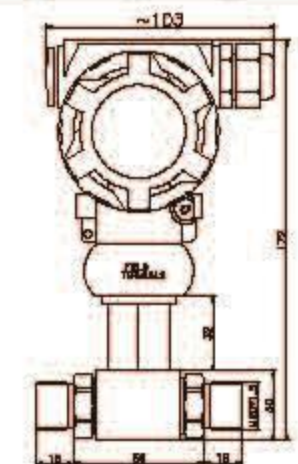

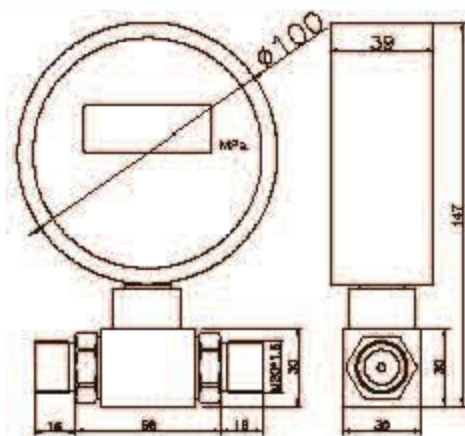
## QYB16X Differential Pressure Transmitter

### Overview

QYB16X differential pressure transmitter adopts diffused silicon differential pressure sensor and stainless steel case, the two pressure interfaces can be connected on the measured pipeline or impulse line, suitable for measuring differential pressure of gas and liquid.

### Specification

|                       |            |                    |         |
|-----------------------|------------|--------------------|---------|
| Measuring Range       | 0~3.5MPa   | Accuracy           | 0.5%F.S |
| Stability             | ≤0.1%/year | Static Pressure    | ≤10MPa  |
| Operating Temperature | -30~80℃    | Medium Temperature | -40~85℃ |

| Model  | Picture   | Dimension   | Output Signal              | Main Feature   |
|--------|---|---|----------------------------|--|
| QYB160 |  |  | 4~20mA<br>0~5/10V<br>RS485 | Optional electronic connecting, compact structure                |
| QYB161 |  |  | 4~20mA<br>0~5/10V          | Wind differential pressure measurement, Measuring range 0~600kpa |
| QYB162 |  |  | 4~20mA<br>RS485<br>Hart    | Industrial protection grade, Optional LCD and LED display        |
| QYB164 |  |  | 4~20mA<br>RS485            | Φ100 standard dial plate, Visual display                         |

## Sanitary Pressure Transmitter QYB18X

### Overview

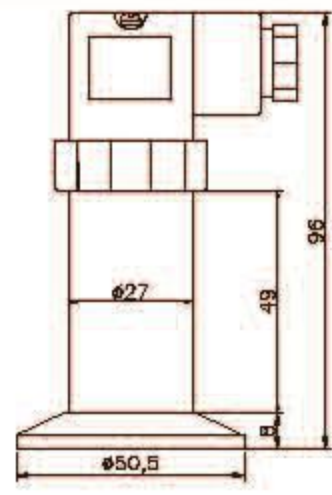
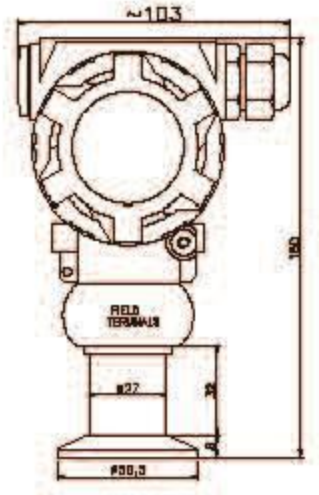
QYB18X adopts flat membrane which can catch pressure signal directly, uses diffused silicon pressure sensor, equips all digital circuit so as to transmit the sensor signal to standard electric voltage or current signal. It is widely used in food industry, medical treatment, brewing industry and other sanitary field or special medium which may be sticky or scaling material.

### Main Feature

1. 316L flat membrane structure for pressure interface
2. Sanitary type, anti-scaling
3. Short-circuit protection, reverse polarity protection
4. Good leak tightness, long-term stable working
5. Multi output signal option, customized design

### Specification

|                       |               |                     |           |
|-----------------------|---------------|---------------------|-----------|
| Measuring Range       | 0~0.1...10MPa | Accuracy            | ≤0.25%F.S |
| Stability             | ≤0.2%/year    | Protection Grade    | IP65      |
| Power Supply          | 12~30VDC      | Relative Humidity   | 0~90%     |
| Operating Temperature | -30~80℃       | Storage Temperature | -40~120℃  |

| Model  | Picture   | Dimension   | Output Signal              |
|--------|---|---|----------------------------|
| QYB180 |  |  | 4~20mA<br>0~5/10V<br>RS485 |
| QYB182 |  |  | RS485<br>4~20mA<br>HART    |



## QYB500/501 Wireless Pressure Transmitter

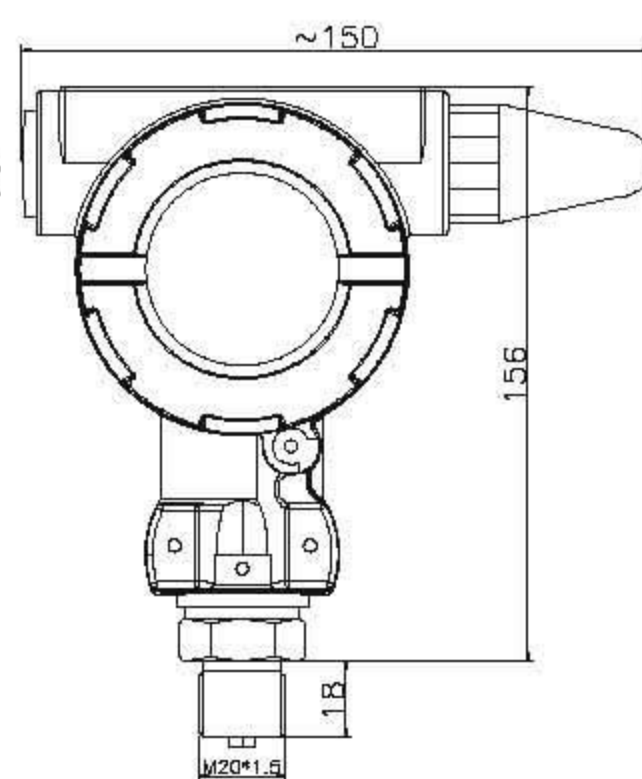
### Overview

QYB500 is a wireless pressure transmitter with low-power consumption. It adopts advanced industrial MCU core, high quality sensor, industrial wireless Zigbee data module, high-capacity lithium battery. It can realize the Zigbee internet system consist of multi products, monitoring the current data of multi points in wide range, such as gas chamber, oil tank and industry automation. It is used in petroleum, coal and water supply automation system.



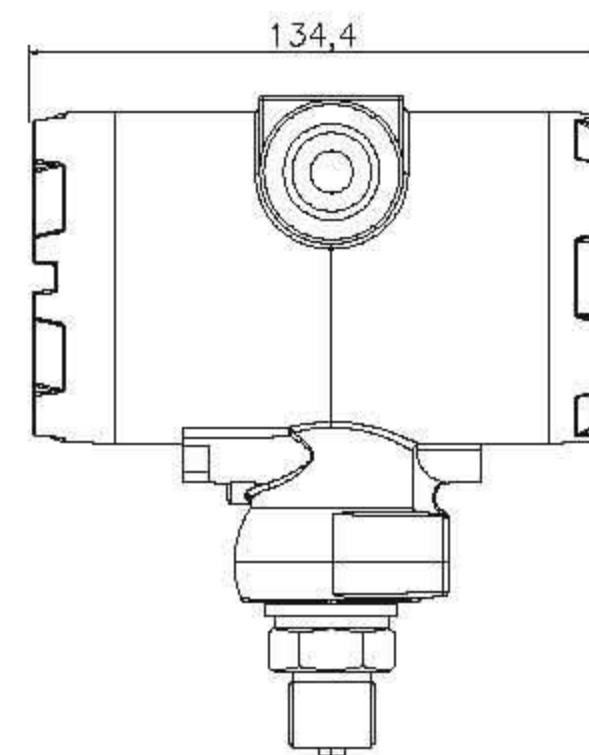
### Main Features

1. QYB500 suitable for four letter agreement, QYB501 suitable for A11 agreement
2. Wireless measurement in pipeline, specially used in pressure measurement of oilfield and wellhead
3. Explosion-proof design and housing, intrinsic safety in circuit
4. Protection grade IP67, fully sealed waterproof design
5. Zigbee communication, test and adjust by hand calibrator
6. LCD display, -40~70°C wide working temperature range, display pressure data and battery voltage
7. 38Ah high-capacity lithium battery, extended working life
8. High gain antenna, wireless transmission distance of 1000m



### Specification

|                                 |                 |                       |                      |
|---------------------------------|-----------------|-----------------------|----------------------|
| Measuring Range                 | -0.1~0...100MPa | Accuracy              | 0.25%F.S             |
| Stability                       | ≤0.1%/year      | Overload Capacity     | 150%F.S              |
| Reporting Period                | 1s~1hour        | Display               | 5digits LCD          |
| Signal Transmission             | ZigBee          | Transmitting Power    | ≤40mW                |
| Visual Distance                 | 1000m           | Power Supply          | 3.6V Lithium Battery |
| Explosion Proof Grade           | Exib IIB T6 Gb  | Protection Grade      | IP67                 |
| Operating Interface             | Customization   | Operating Temperature | -40~70°C             |
| Humidity of Working Environment | ≤90%            | Product Weight        | 2000g                |



## Wireless Pressure Transmitter QYB502

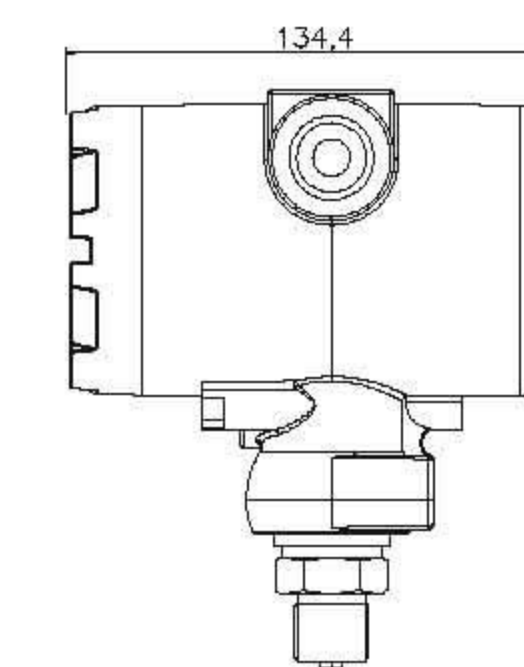
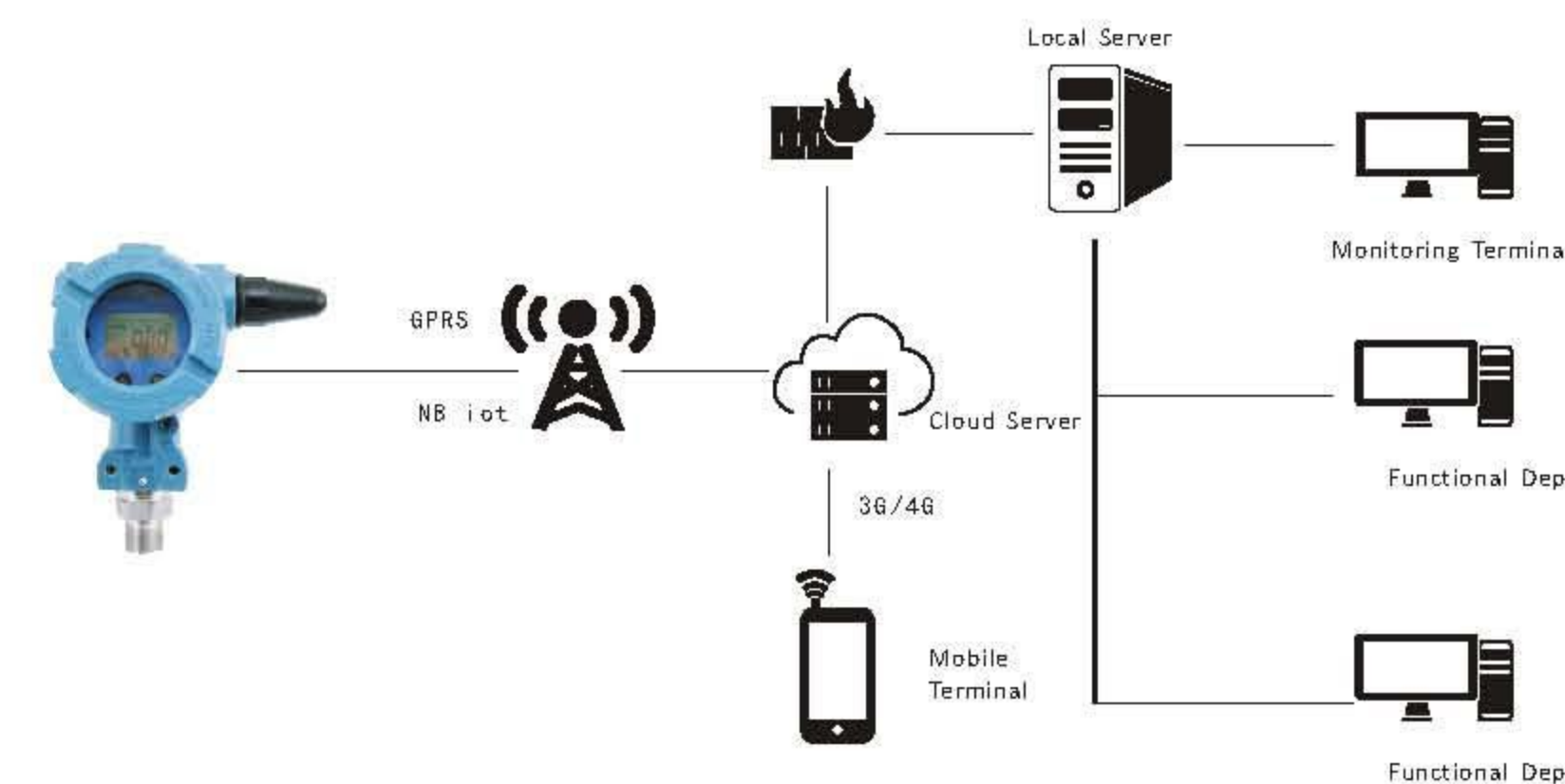
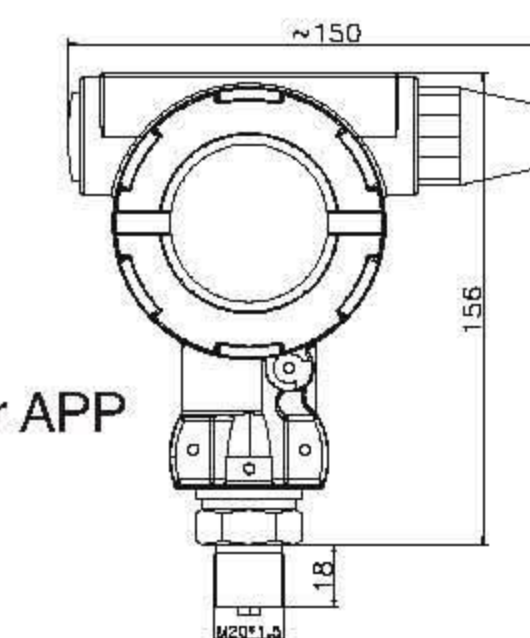
### Overview

QYB502, equipped with battery, is a high-precision pressure transmitter including wireless communication (NB-IOT). It is designed for harsh or outside operating environment without electric supply, such as transportation of oil, gas and heating. It can communicate with telecommunications supplier and output data to the data center. In order to reduce system power consumption, the default reporting period is 1 time/h.



### Main Features

1. Battery power supply, easy to use
2. Low power consumption design, extend the battery working life
3. Wireless communication agreement, freedom communication distance
4. Data upload to the data server directly, customer can get data by internet or APP
5. High light LCD display, visual key operation
6. Metal case, fully sealed design, high protection grade



### Specification

|                           |                            |                       |  |
|---------------------------|----------------------------|-----------------------|--|
| Measuring Range           | 0~100MPa                   | Medium Temperature    | -40°C~85°C   |
| Power Supply              | 3.6V/3.8Ah Lithium Battery | Operating Temperature | -30°C~70°C   |
| Pressure Detection Period | 1min~1hour                 | Power Consumption     | Average working current is about 100 mA and dormancy current is less than 10 mA. |
| Pressure Reporting Period | 5mins~24hours              | Overload Capacity     | 150%F.S  |
| Accuracy                  | 0.25%F.S                   | Product Weight        | 2000g  |
| Stability                 | ≤0.1%/year                 | Signal Transmission   | Wireless Communication (NB-IOT)  |



**QYB400** Monocrystalline Silicon Pressure Transmitter

**Main Features**

- 1.Span shift function, span shift ratio 100:1
- 2.Damping: 0-30s adjustment, 0.1s/step
- 3.Zero/full span compensation and correction
- 4.Output current multi points correction
- 5.Multi pressure units option
- 6.Ultralow temperature LCD display (-40~70°C)
- 7.Extraction of a root function for output current
- 8.Self-diagnosis and fault alarm output function
- 9.EEPROM non-volatile memory, prevent losing data due to outage or mistake
- 10.Remote transmission via HART or RS485



**Specification**

|                             |   |
|-----------------------------|---|
| Sensor Material             | Monocrystalline silicon   |
| Measure Medium              | Gas/Liquid/Steam  |
| Output                      | 4~20mA+Hart<br>4~20mA+RS485   |
| Power Supply                | 12~30VDC  |
| Display                     | 5-digits LCD, 3lines, with unit&bar chart   |
| Explosion-proof Performance | Explosion-proof, waterproof, sealed shell, Intrinsically-safe   |
| Operating Temperature       | -40 ~ 70°C  |
| Medium Temperature          | -40°C~100°C(silicon oil)<br>-40°C~85°C(fluorocarbon oil)<br>-29°C~149°C(normal silicon oil)<br>15°C~300°C(high temp. silicon oil) |
| Damping Adjustment          | 0-30s, 0.1s/step  |
| Measure Range               | Differential pressure: 0-0.125KPa to 0-7MPa<br>Gage pressure: 0-0.125KPa to 0-42MPa<br>Absolute pressure: 0-200KPa to 0-2.1MPa    |
| Accuracy                    | 0.075% F.S.   |
| Stability                   | ≤0.1%/year, 0.25%/3 years   |
| Measure Range Ratio         | 100:1   |

Intelligent Pressure Switch **QYK100**

**Overview**

QYK100 is assembled with 2088 cast aluminium case, stainless steel connector, high quality diffusion silicon sensor and integrated circuit. It has advantages such as high protection grade, visual display, high reliability, easy installation and adjustment on site, used in fluid pressure monitoring and controlling in water supply, electric industry, petroleum, chemical engineering, mechanical engineering and hydraulic engineering.



**Main Features**

- 1.All digital, adjustable data during full span
- 2.High protection grade, suitable for harsh environment
- 3.4 digits LED display with high resolution, no indication error
- 4.Adjustment on site
- 5.Relay output, two lines control
- 6.4-20mA output

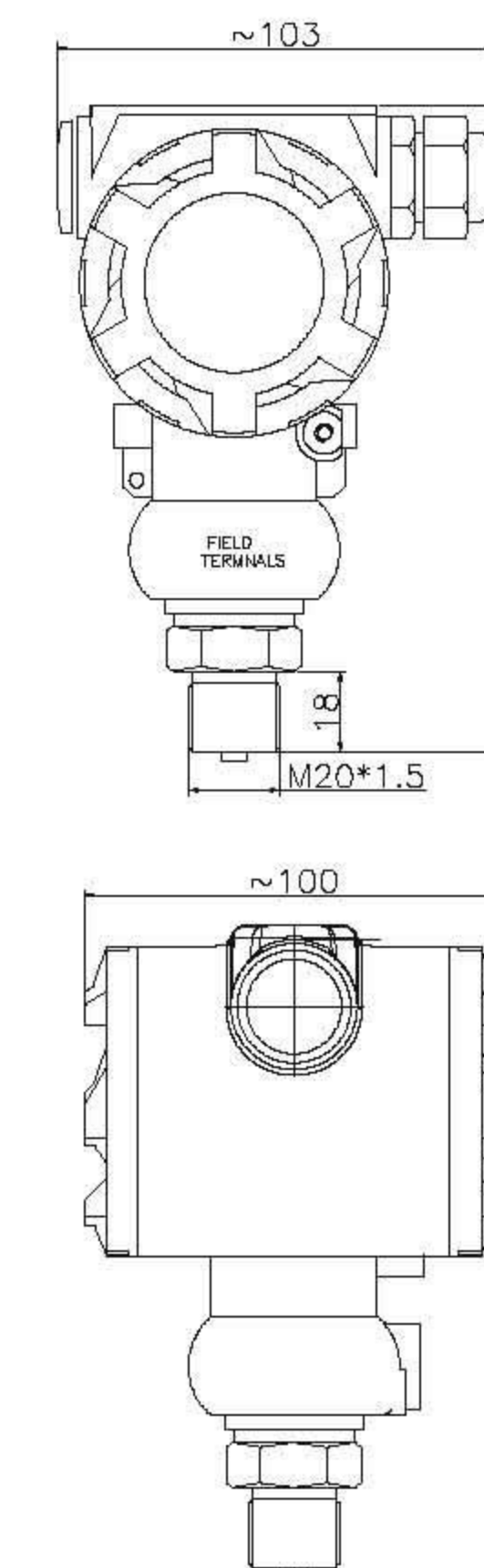
**Specification**

|               |                  |                            |                 |
|---------------|------------------|----------------------------|-----------------|
| Control Range | -0.1~0...100Mpa  | Control Accuracy           | ≤0.5%FS         |
| Stability     | ≤0.1%/year       | Connecting Liquid Material | Stainless Steel |
| Power Range   | 24V ± 20%        | Max. Power Consumption     | < 1W            |
| Load Capacity | 24VDC3A/250VAC3A | Switch Type                | Relay           |

Remark: Heat radiator must be used if medium temperature over 80°C.

**Selection Guide**

| Selection Guide of QYK100 Pressure Switch |                                 |         |  |
|---|---------------------------------|---------|--|
| QYK100                                    |                                 |         |  |
| Thread Connection                         | G12                             | G1/2    |  |
|   | G14                             | G1/4    |  |
|   | M20                             | M20*1.5 |  |
| Control Range                             | According to customer's request |         |  |





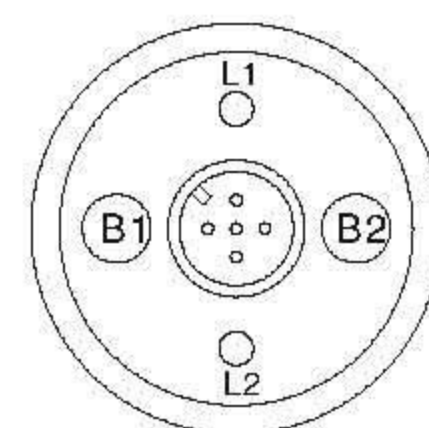
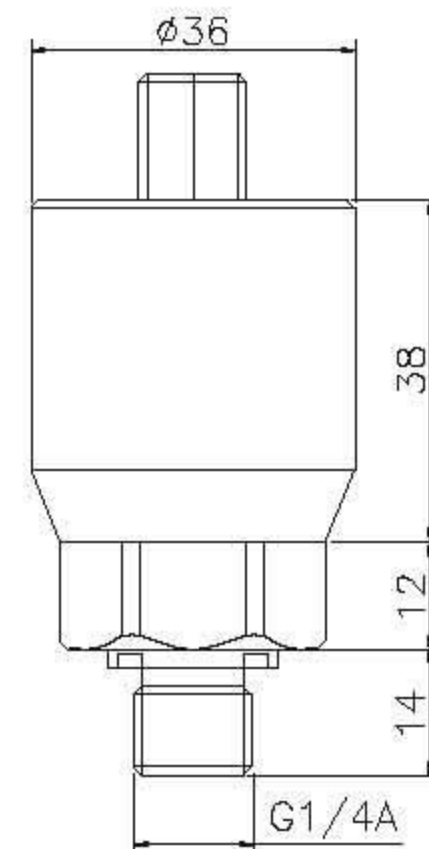
## QYK101 Pressure Switch

### Overview

QYK101 intelligent pressure transmitter with switch is easy to operate and adjust, which is also safe and reliable. It is used in fluid pressure monitoring and controlling in water supply, electric industry, petroleum, chemical engineering, mechanical engineering and hydraulic engineering.

### Main Features

1. All digital, adjustable switch value during full span
2. Fast switch speed, 630 times/s
3. Resistance to wave current, sharp pulse and radio frequency interference
4. Switch value and back difference setting via software and communication interface
5. Set switch value via button
6. High Protection grade
7. Fully stainless steel case suitable for various medium



### Specification

|               |                 |                        |                 |
|---------------|-----------------|------------------------|-----------------|
| Control Range | -0.1~0...100Mpa | Control Accuracy       | ≤0.5%F.S        |
| Stability     | ≤0.1%/year      | Shell Material         | Stainless steel |
| Power Range   | 24V ± 20%       | Max. Power Consumption | < 1W            |
| Load Capacity | <24V1.2A        | Switch Type            | NPN/PNP         |

### Selection Guide

| Selection Guide of QYK101 Pressure Switch |                                 |         |  |
|---|---------------------------------|---------|--|
| QYK101                                    |                                 |         |  |
| Thread Connection                         | G12                             | G1/2    |  |
|   | G14                             | G1/4    |  |
|   | M20                             | M20*1.5 |  |
| Switch Type                               | P                               | PNP     |  |
|   | N                               | NPN     |  |
| Control                                   | According to customer's request |         |  |

## Digital Pressure Switch QYK102

### Overview

QYK102 is an intelligent pressure transmitter with switch including measuring pressure, display, output and control.

### Main Features

1. 4 digits display current pressure
2. Fast switch speed, 300 times/s
3. Preset switch value and delay switch output
4. Zero/full span compensation and correction
5. Back difference setting
6. Adjustment on site
7. 2 lines switch output, load capacity 1.2A
8. 4~20mA output

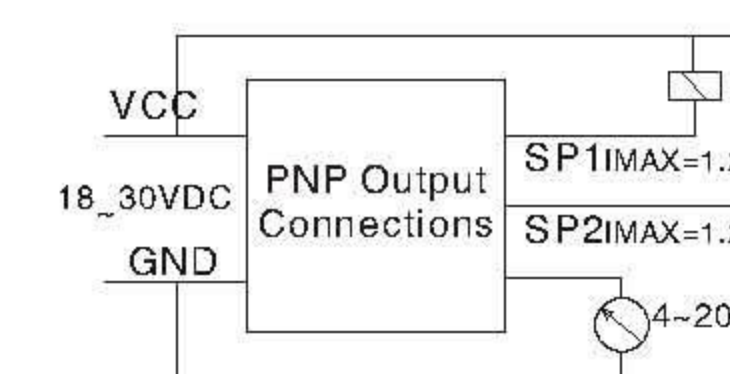
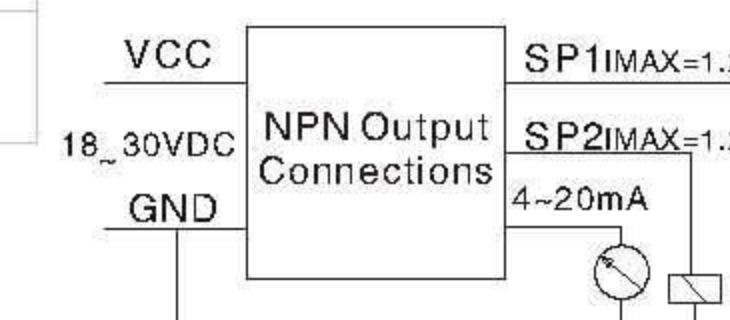
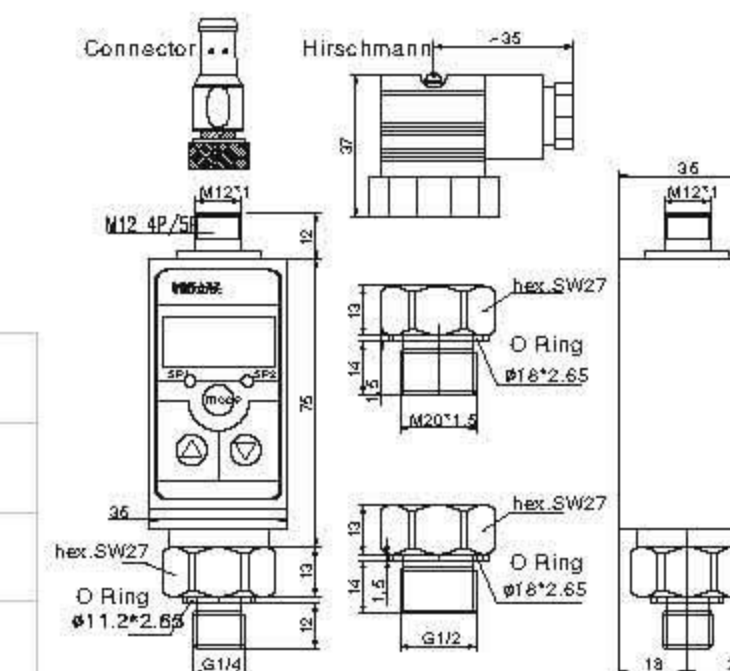
### Specification

|                       |                     |                    |                 |
|-----------------------|---------------------|--------------------|-----------------|
| Control Range         | -0.1~0...100MPa     | Control Accuracy   | ≤0.5%F.S        |
| Stability             | ≤0.1%/year          | Temperature Drift  | ≤0.02%F.S/°C    |
| Display               | 4 digits Nixie Tube | Display Range      | -1999~9999      |
| Power Range           | 24VDC ± 20%         | Switch Type        | PNP/NPN         |
| Load Capacity         | <24V/1.2A           | Switch Life        | >1million Times |
| Response Time         | <5ms                | Protection Grade   | IP65            |
| Operating Temperature | -30~80°C            | Medium Temperature | -40~150°C       |

Remark: Heat radiator must be used if medium temperature over 80°C.

### Selection Guide

| Selection Guide of QYK102 Pressure Switch |               |                                      |     |
|---|---------------|--------------------------------------|-----|
| QYK102                                    |               |                                      |     |
| Electrical Connection                     | H             | One Analog(Hirschmann)               |     |
|   | M             | Two-way switch + one Analog (M12-5P) |     |
| Thread Connection                         | G12           | G1/2                                 |     |
|   | G14           | G1/4                                 |     |
|   | M20           | M20*1.5                              |     |
|   |               | P                                    | PNP |
| Switch Type                               |               | NPN                                  |     |
|   | Control Range | According to customer's request      |     |





## QYK103 Digital Pressure Switch

### Overview

QYK103 is an intelligent pressure transmitter with switch including measuring pressure, display, output and control. It has advantages of high stability and fast response speed, which is suitable for hydraulic field.

### Main Features

- 1.4 digits display
- 2.Fast switch speed, 320 times/s
- 3.Span zoom and shift
- 4.Preset switch value and delay switch action
- 5.Optional switch output function
- 6.Luminous diode for switch action
- 7.Button adjustment and set up parameters on site
- 8.2 lines switch output, load capacity 1.2A
- 9.4~20mA output
- 10.330° rotary display window

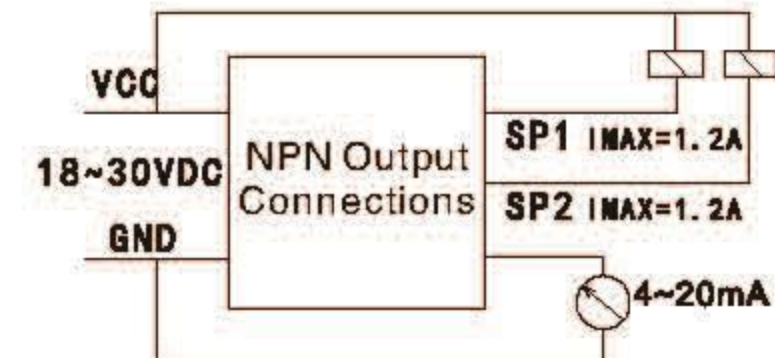
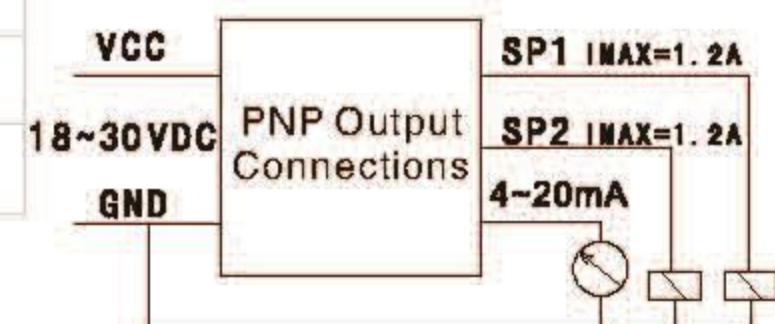
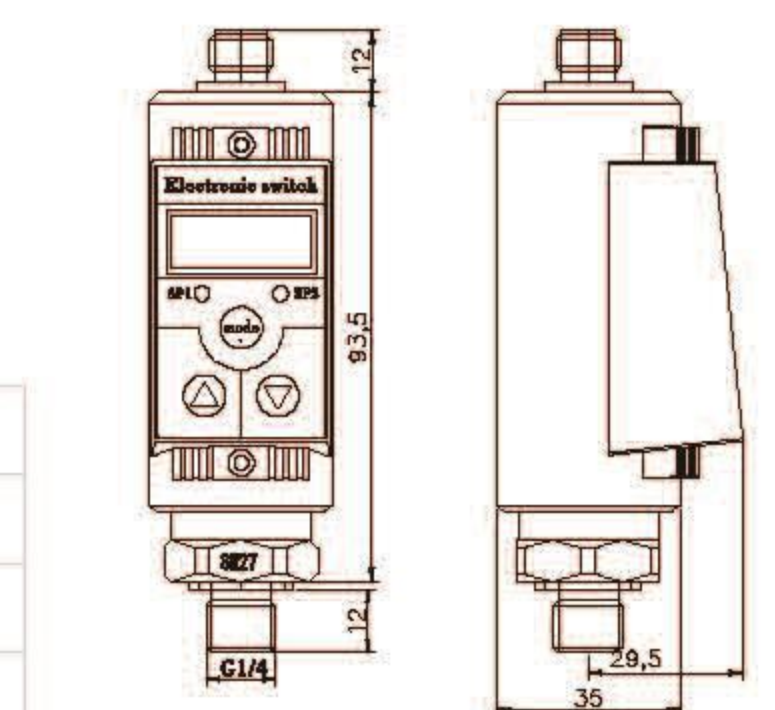
### Specification

|                  |                     |                       |                  |
|------------------|---------------------|-----------------------|------------------|
| Control Range    | -0.1~0...100MPa     | Control Accuracy      | ≤0.5%F.S         |
| Stability        | ≤0.1%/year          | Display Accuracy      | ±0.1%F.S         |
| Display          | 4-digits Nixie Tube | Display Range         | -1999~9999       |
| Power Range      | 24V ± 20%           | Max.Power Consumption | < 1W             |
| Load capacity    | <24V 1.2A           | Switch Type           | PNP/NPN          |
| Response Time    | ≤5ms                | Switching Life        | >1 million times |
| Protection level | IP65                | Medium temperature    | -40~150℃         |

Remark: Heat radiator must be used if medium temperature over 80℃.

### Selection Guide

| Selection Guide of QYK103 Pressure Switch |                                 |                                      |  |
|---|---------------------------------|--------------------------------------|--|
| QYK103                                    |                                 |                                      |  |
| Electrical Connection                     | H                               | One Analog(Hirschmann)               |  |
|   | M                               | Two-way switch + one Analog (M12-5P) |  |
| Thread Connection                         | G12                             | G1/2                                 |  |
|   | G14                             | G1/4                                 |  |
|   | M20                             | M20*1.5                              |  |
| Switch Type                               | P                               | PNP                                  |  |
|   | N                               | NPN                                  |  |
| Contnl Range                              | According to customer's request |                                      |  |



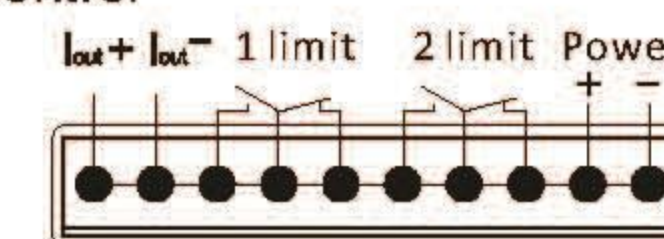
## Intelligent Pressure Controller QYK104

### Overview

QYK104 is a multifunctional intelligent pressure transmitter with switch for fluid medium, including measuring pressure, display, output and two lines control.

### Main Features

1. φ 100 standard dial plate
- 2.4 digits LED display with high resolution, no indication error
- 3.Button adjustment and set up parameters on site
- 4.Relay output 220V/3A of two wires control
- 5.4~20mA standard signal output



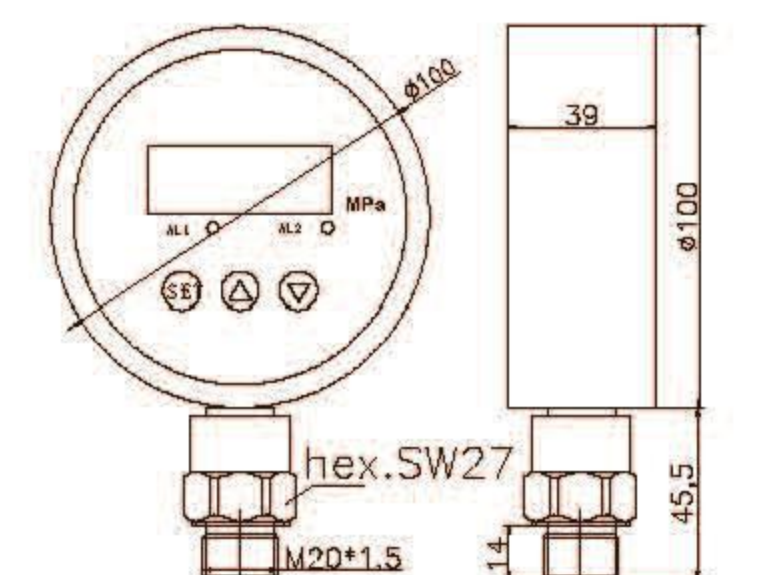
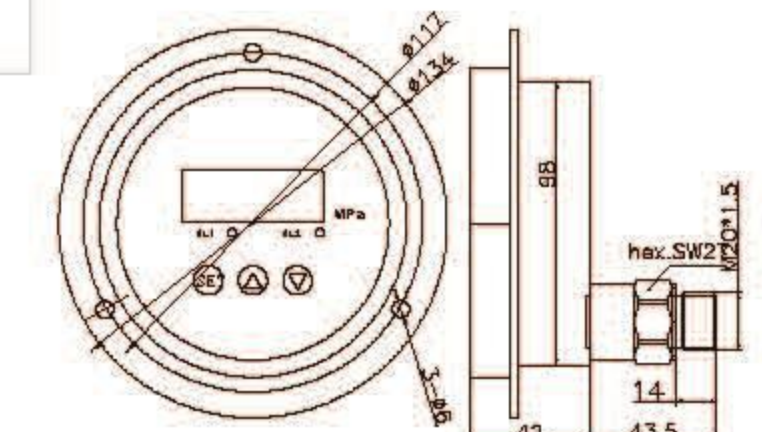
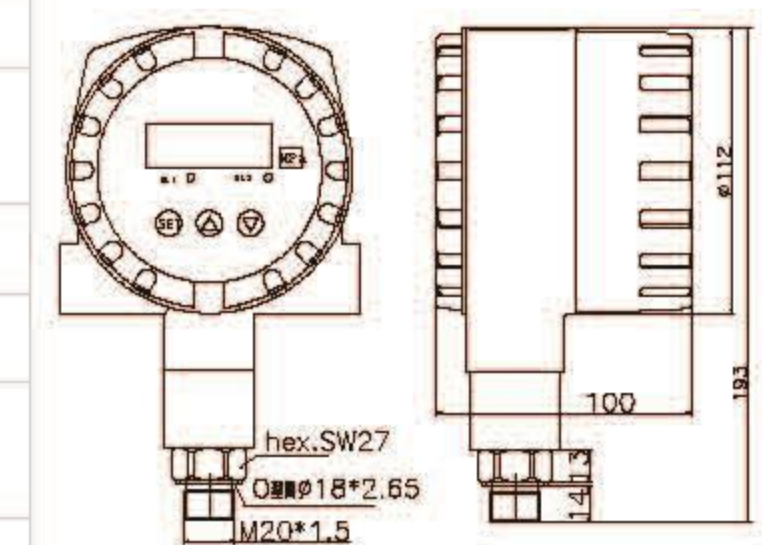
### Specification

|                   |                  |                       |  |
|-------------------|------------------|-----------------------|--|
| Measuring Range   | -0.1~0...100MPa  | Control accuracy      | 0.5%F.S  |
| Overload Capacity | 150%F.S          | Pressure Type         | Gauge pressure/absolute pressure/differential pressure |
| Stability         | ≤0.1%/year       | Power                 | 24VDC/220VAC   |
| Display           | 0.56" Nixie Tube | Display Range         | -1999~9999   |
| Response Time     | <30ms            | Operating Temperature | -30℃~80℃   |
| Relative Humidity | 0~90%            | Medium Temperature    | -40~150℃   |

Remark: Heat radiator must be used if medium temperature over 80℃.

### Selection Guide

| Selection Guide of QYK104 Pressure Controller |                                 |                                  |  |
|---|---------------------------------|----------------------------------|--|
| QYK104  | J                               | φ 100Radial Stainless Steel Case |  |
|   | Z                               | 100Axial                         |  |
|   | B                               | Explosion-proof Case             |  |
| Thread Connection                             | G12                             | G1/2                             |  |
|   | M20                             | M20*1.5                          |  |
| Power   | D                               | 24VDC                            |  |
|   | A                               | 220VAC                           |  |
| Measuring Range                               | According to customer's request |                                  |  |





## QYK105 Intelligent Pressure Controller

### Overview

QYK105 is a multifunctional intelligent pressure transmitter with switch for fluid medium, including measuring pressure, display, output and four wires control, with function of remote transmission and RS485 networking.

### Main Features

1. φ 100 standard instrument installation
2. 4 digits LED display with high resolution, no indication error
3. Relay output 220V/3A of four wires control
4. Button adjustment and set up parameters on site
5. 4~20mA standard signal output (alternative)
6. RS485 signal output and networking (alternative)
7. Four lines control at site, free configuration
8. Optional power supply 24VDC/220VAC

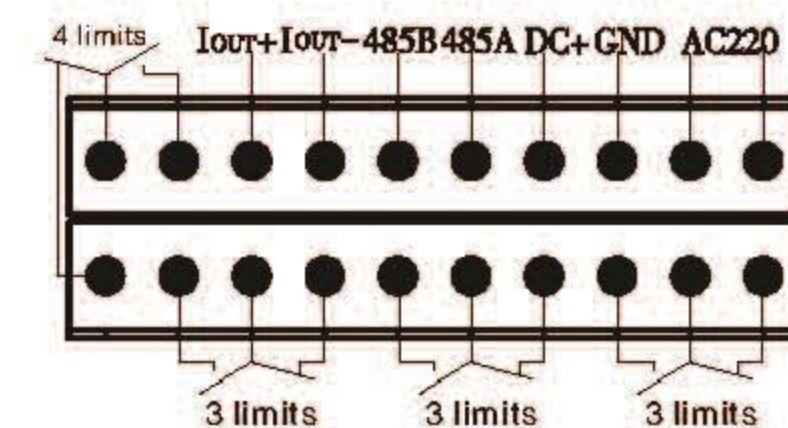
### Specification

|                   |                  |                       |  |
|-------------------|------------------|-----------------------|--|
| Measuring Range   | -0.1~0...100MPa  | Accuracy              | 0.5%F.S  |
| Overload Capacity | 150%F.S          | Pressure Type         | Gauge pressure/absolute pressure/differential pressure |
| Stability         | ≤0.1%/year       | Power                 | 24VDC/220VAC   |
| Display           | 0.56" Nixie Tube | Display Range         | -1999~9999   |
| Response Time     | <30ms            | Operating Temperature | -30°C~80°C   |
| Relative Humidity | 0~90%            | Medium Temperature    | -40~150°C  |

Remark: Heat radiator must be used if medium temperature over 80°C

### Selection Guide

| Selection Guide of QYK105 Pressure Controller |                                 |                                   |  |
|---|---------------------------------|-----------------------------------|--|
| QYK105  | J                               | φ 100 Radial Stainless Steel Case |  |
|   | B                               | Explosion proof shell             |  |
| Output Signal                                 | I                               | 4~20mA                            |  |
|   | R                               | RS485                             |  |
| Thread Connection                             | G12                             | G1/2                              |  |
|   | M20                             | M20*1.5                           |  |
| Power Supply                                  | D                               | 24VDC                             |  |
|   | A                               | 220VAC                            |  |
| Measuring Range                               | According to customer's request |                                   |  |



## Intelligent Pressure Controller QYK106

### Overview

QYK106 is a multifunctional intelligent pressure transmitter with switch for fluid medium, including measuring pressure, display, output and control in five wires, with function of remote transmission and RS485 networking.

### Main Features

1. φ 100 standard instrument installation
2. Double 4 digits LED display with high resolution, no indication error
3. Relay output 220V/3A of five wires control
4. 4~20mA standard signal output (alternative)
5. RS485 signal output and networking (alternative)
6. Five lines control at site, free configuration
7. Optional power supply 24VDC/220VAC

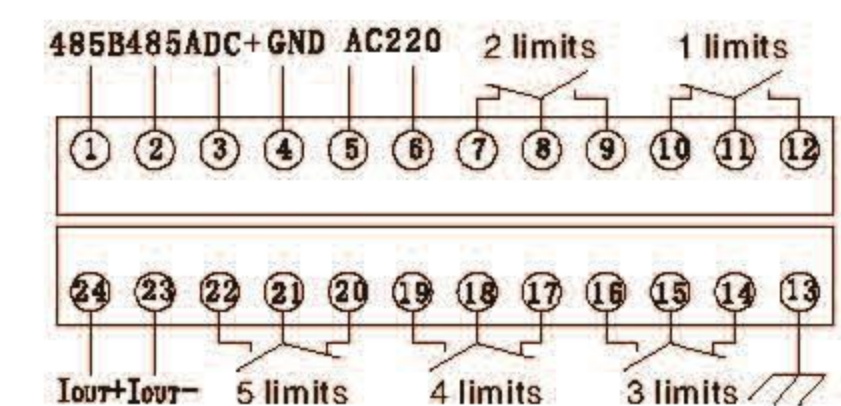
### Specification

|                   |                        |                       |  |
|-------------------|------------------------|-----------------------|--|
| Measuring Range   | -0.1~0...100MPa        | Accuracy              | 0.5%F.S  |
| Overload Capacity | 150%F.S                | Pressure Type         | Gauge pressure/absolute pressure/differential pressure |
| Stability         | ≤0.1%/year             | Power                 | 24VDC/220VAC   |
| Display           | 0.56"+0.36" Nixie Tube | Display range         | -1999~9999   |
| Response Time     | <30ms                  | Operating Temperature | -30°C~80°C   |
| Relative Humidity | 0~90%                  | Medium Temperature    | -40~150°C  |

Remark: Heat radiator must be used if medium temperature over 80°C.

### Selection Guide

| Selection Guide of QYK106 Pressure Controller |                                 |                                   |  |
|---|---------------------------------|-----------------------------------|--|
| QYK106  | J                               | φ 100 Radial Stainless Steel Case |  |
|   | B                               | Explosion Proof shell             |  |
| Output Signal                                 | I                               | 4~20mA                            |  |
|   | R                               | RS485                             |  |
| Thread Connection                             | G12                             | G1/2                              |  |
|   | M20                             | M20*1.5                           |  |
| Power Supply                                  | D                               | 24VDC                             |  |
|   | A                               | 220VAC                            |  |
| Measuring Range                               | According to customer's request |                                   |  |





**QYK107** ECO Pressure Controller

**Overview**

QYK107 is a multifunctional economical pressure transmitter with switch including measuring pressure, display and control in two wires, which can replace the electric pressure meter.

**Main Features**

1. Diameter 82mm, radial mount
2. 4 digits LED display with high resolution, no indication error
3. Relay output 220V/3A of two wires control
4. Control set on site, free configuration
5. Enhanced anti-interference design, suitable for kinds of weak electromagnetism industrial environment
6. High cost-effective, OEM customization



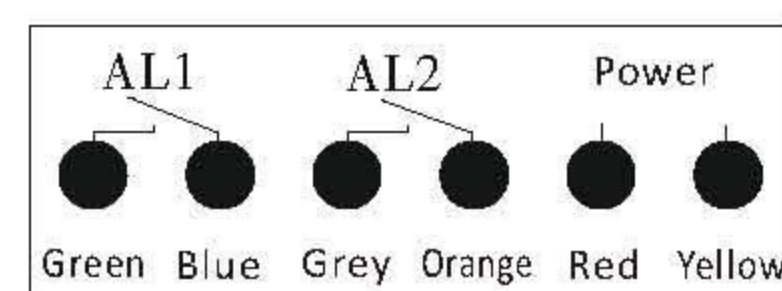
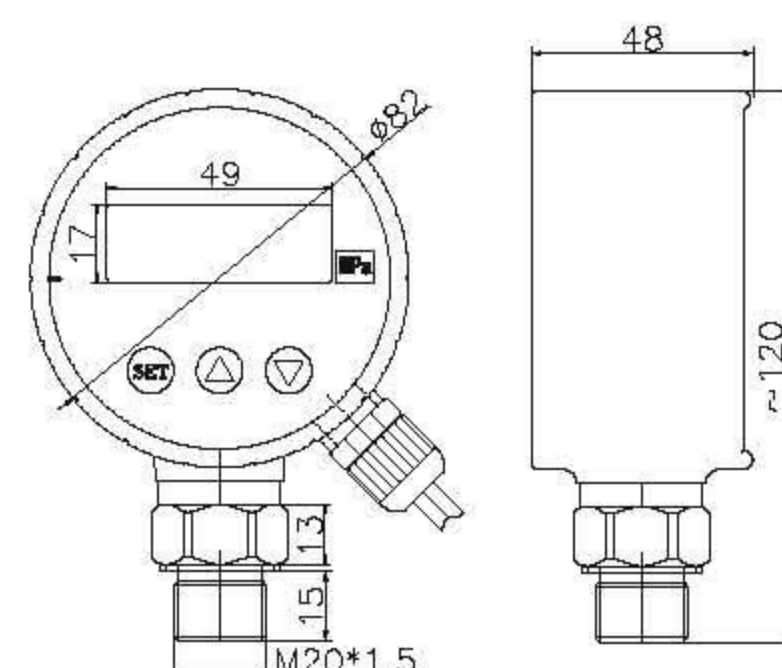
**Specification**

|                   |                 |                       |  |
|-------------------|-----------------|-----------------------|--|
| Measuring Range   | 0.1~0...100MPa  | Accuracy              | 0.5%F.S  |
| Overload Capacity | 150%F.S         | Pressure Type         | Gauge pressure/absolute pressure/differential pressure |
| Stability         | ≤0.1%/year      | supply voltage        | 24VDC/220VAC   |
| Display           | 0.56"Nixie Tube | Display Range         | -1999~9999   |
| Response Time     | <30ms           | Operating Temperature | -30℃~80℃   |
| Relative Humidity | 0~90%           | Protection Grade      | IP65   |

Remark: Heat radiator must be used if medium temperature over 80℃ .

**Selection Guide**

| Selection Guide of QYK107 Pressure Controller |                                 |         |
|---|---------------------------------|---------|
| QYK107  | G12                             | G1/2    |
| Thread Connection                             | G14                             | G1/4    |
|   | M20                             | M20*1.5 |
| Power Supply                                  | D                               | 24VDC   |
|   | A                               | 220VAC  |
| Measuring Range                               | According to customer's request |         |



**Digital Pressure Gauge** **QDB108**

**Overview**

QDB108 is battery-powered with good vibration resistance. It is used in gas and liquid medium, suitable for portable equipment, metrical instrument and pipeline indoor.

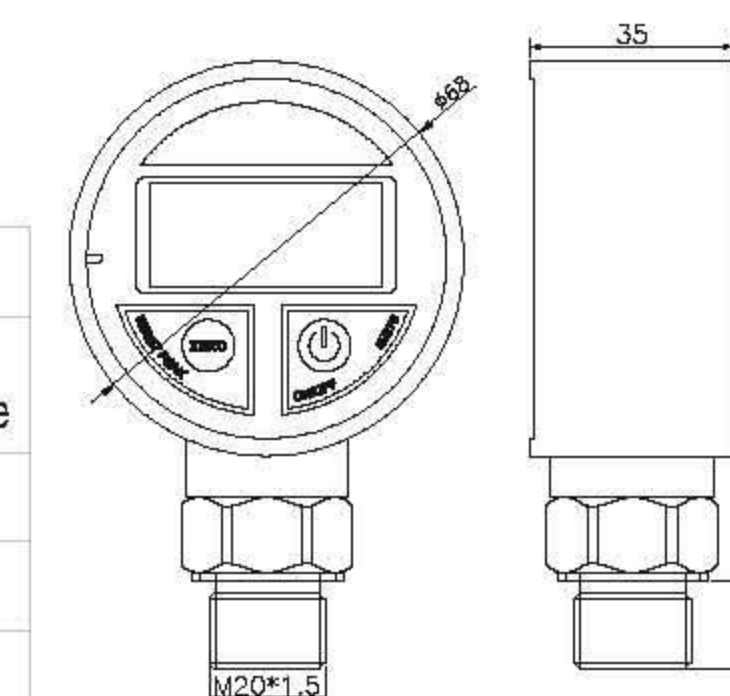
**Main Features**

1. Large-screen LCD display with high resolution, no indication error
2. Automatically record the maximum pressure value during the measurement
3. Pressure percentage dynamic demonstration
4. 5 engineering units: psi, bar, kPa, MPa, kg/cm2
5. 1-15minutes automatic power-off function
6. Battery life over 2 years in power-saving mode, 2,000 hours continuous working
7. Parameter correction, correct zero and error on site
8. Sampling rate: 4 times/s
9. Applicable to gas and liquid compatible with stainless steel



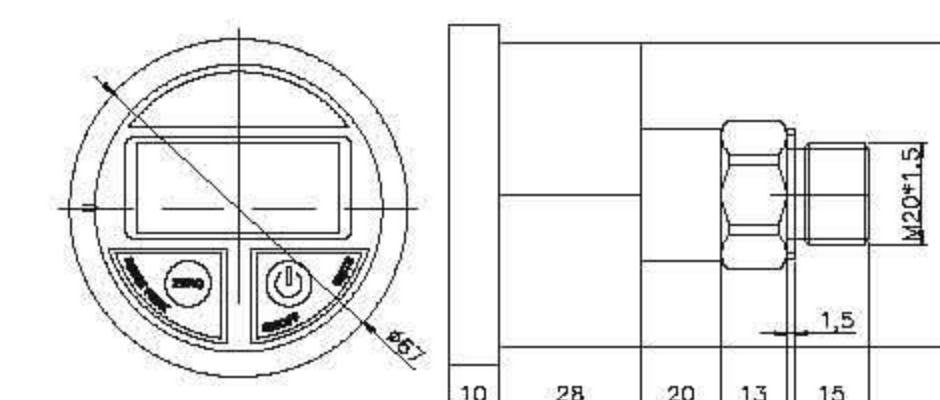
**Specification**

|                       |                 |                   |  |
|-----------------------|-----------------|-------------------|--|
| Measuring Range       | -0.1~0...100MPa | Accuracy          | 0.2%F.S  |
| Overload Capacity     | 150%F.S         | Pressure Type     | Gauge pressure/absolute pressure/differential pressure |
| Stability             | ≤0.1%/year      | Battery           | 9VDC   |
| Display               | LCD             | Display Range     | -1999~9999   |
| Operating Temperature | -20℃~70℃        | Relative Humidity | 0~90%  |



**Selection Guide**

| Selection Guide of QDB108 Pressure Gauge |                                 |              |
|--|---------------------------------|--------------|
| QDB108                                   | J                               | Radial Mount |
|  | Z                               | Axial Mount  |
| Thread Connection                        | G12                             | G1/2         |
|  | G14                             | G1/4         |
|  | M20                             | M20*1.5      |
| Measuring Range                          | According to customer's request |              |





## QDB109 Digital Pressure Gauge

### Overview

QDB109 is battery-powered with good vibration resistance. It can measure gas and liquid, widely used in petroleum, chemical, environmental protection, laboratory, medical, mechanical, hydraulic, water supply industries, etc.

### Main Features

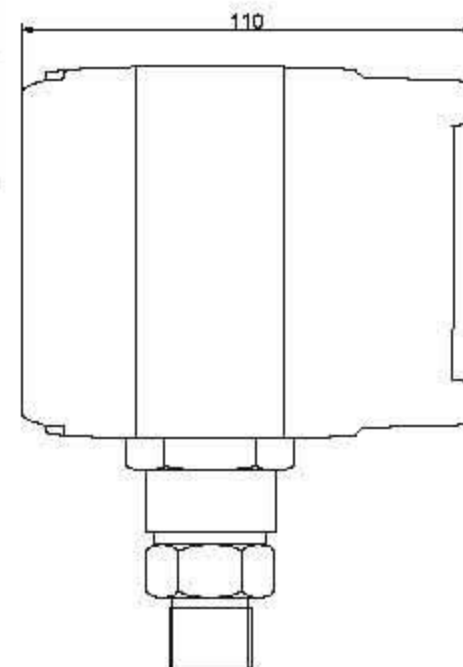
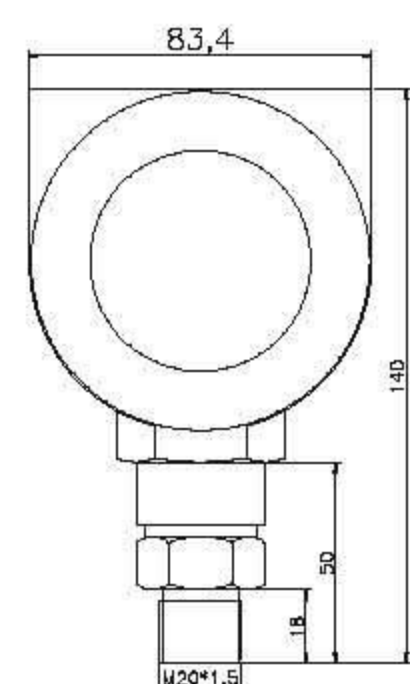
1. Large-screen LCD display with high resolution, no indication error
2. Automatically record the maximum pressure value during the measurement
3. Pressure percentage dynamic demonstration
4. 5 engineering units: psi, bar, kPa, MPa, kg/cm<sup>2</sup>
5. 1–15 minutes automatic power-off function
6. Battery life over 2 years in power-saving mode, 2,000 hours continuous working
7. Parameter correction, correct zero and error on site
8. Span setting freely
9. Sampling rate: 4 times/s
10. Applicable to gas and liquid compatible with stainless steel
11. High protection grade, suitable for harsh working condition outside

### Specification

|                       |                 |                   |  |
|-----------------------|-----------------|-------------------|--|
| Measuring Range       | -0.1~0...100MPa | Accuracy          | 0.2%F.S  |
| Overload Capacity     | 150%F.S         | Pressure Type     | Gauge pressure/absolute pressure/differential pressure |
| Stability             | ≤0.1%/year      | Battery           | 9VDC   |
| Display               | LCD             | Display Range     | -1999~9999   |
| Operating Temperature | -20°C~70°C      | Relative Humidity | 0~90%  |

### Selection Guide

| Selection Guide of QDB109 Pressure Gauge |                                 |         |  |
|--|---------------------------------|---------|--|
| QDB109                                   |                                 |         |  |
| Thread Connection                        | G12                             | G1/2    |  |
|  | G14                             | G1/4    |  |
|  | M20                             | M20*1.5 |  |
| Measuring Range                          | According to customer's request |         |  |



## Digital Pressure Gauge QDB118

### Overview

QDB118 is battery-powered with full electronic structure, including max. value record, percentage display and environment temperature measuring function, etc.

### Main Features

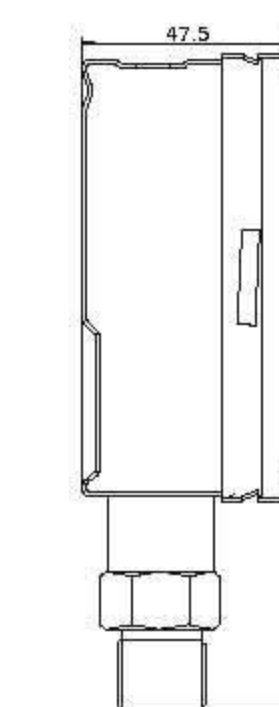
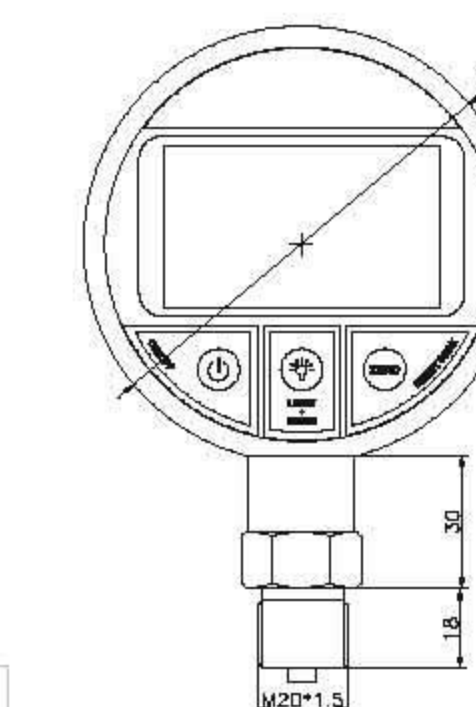
1. Double screen display with high resolution
2. Main screen 5 digital display
3. Second screen can display max./min./peak value and environment temperature
4. Image display of pressure percentage and battery power
5. Pressure overload warn, prevent damage
6. White back light for night
7. 10 international pressure units
8. Optional data acquisition rate 30–100 times/s
9. Automatic power-off function to save the battery life

### Specification

|                       |                 |                   |  |
|-----------------------|-----------------|-------------------|--|
| Measuring Range       | -0.1~0...100MPa | Accuracy          | 0.2%F.S  |
| Overload Capacity     | 150%F.S         | Pressure Type     | Gauge pressure/absolute pressure/differential pressure |
| Stability             | ≤0.1%/year      | Battery           | 3.6VDC   |
| Display               | LCD             | Display Range     | -19999~99999   |
| Operating Temperature | -20°C~70°C      | Relative Humidity | 0~90%  |

### Selection Guide

| Selection Guide of QDB118 Pressure Gauge |                                 |              |  |
|--|---------------------------------|--------------|--|
| QDB118                                   | J                               | Radial Mount |  |
|  | Z                               | Axial Mount  |  |
| Thread Connection                        | G12                             | G1/2         |  |
|  | G14                             | G1/4         |  |
|  | M20                             | M20*1.5      |  |
| Measuring Range                          | According to customer's request |              |  |





## QDB130 Digital Pressure Gauge

### Overview

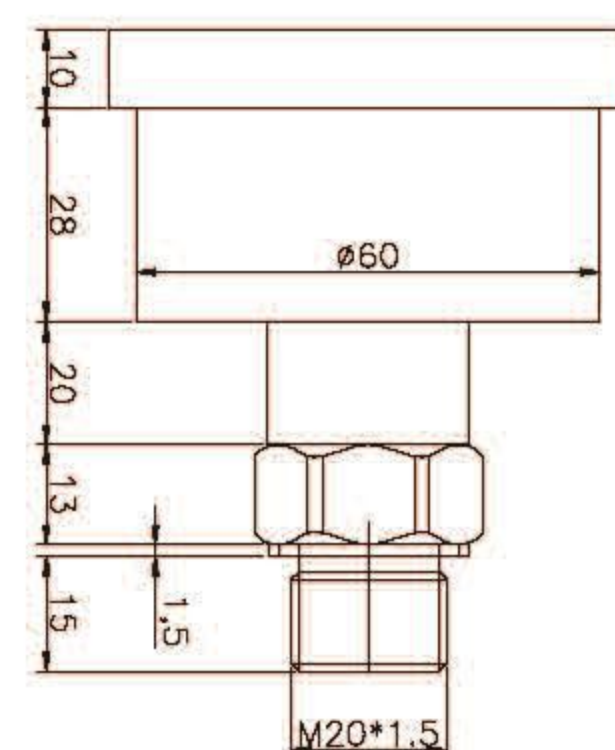
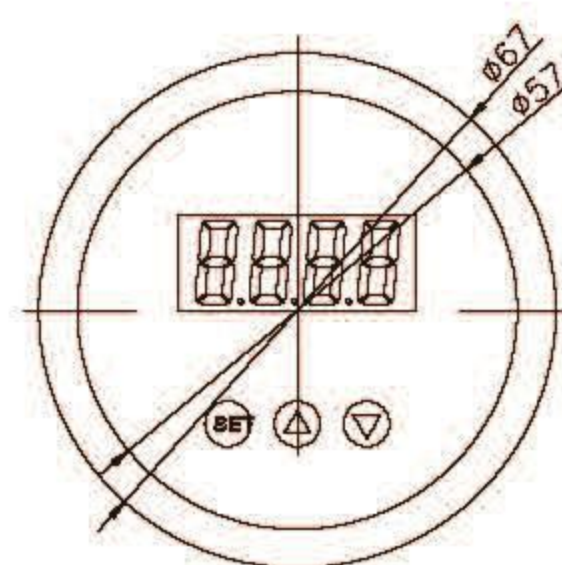
QDB130 adopts oil-filled piezoresistive sensor with isolating membrane and full electronic structure. The output signal is processed by amplifier of high precision and low temperature drift, and then transfer to A/D inverter unit to be the processible digital signals for LED display.

### Main Features

1. 4 digits LED display with high resolution, no indication error
2. Blue Nixie tube, suitable for strong light outside
3.  $\phi 60$  standard dial plate
4. Parameter correction, correct zero and error on site
5. Adjustable display coefficient, measuring torque and weight via pressure

### Specification

|                       |                                  |                   |                |
|-----------------------|----------------------------------|-------------------|----------------|
| Measuring Range       | -0.1~0...100MPa                  | Accuracy          | 0.5%F.S        |
| Overload Capacity     | 150%F.S                          | Pressure Type     | Gauge pressure |
| Stability             | $\leq 0.1\%/year$                | Power Supply      | 8~30VDC        |
| Display               | 0.36 "Nixie Tube                 | Display Range     | -1999~9999     |
| Operating Temperature | -30 $^{\circ}$ C~80 $^{\circ}$ C | Relative Humidity | 0~90%          |



### Selection Guide

| Selection Guide of QDB130 Pressure Gauge |                                 |         |  |
|--|---------------------------------|---------|--|
| QDB130                                   |                                 |         |  |
| Thread Connection                        | G12                             | G1/2    |  |
|  | G14                             | G1/4    |  |
|  | M20                             | M20*1.5 |  |
| Measuring Range                          | According to customer's request |         |  |

## Integrated Liquid Level Transmitter QYB200

### Overview

QYB200 has advantages such as compact structure, simple adjustment and flexible installation. It is used in various level measuring in petroleum, chemical engineering, metallurgy, electric power, pharmacy, water supply and environment protection.

### Main Features

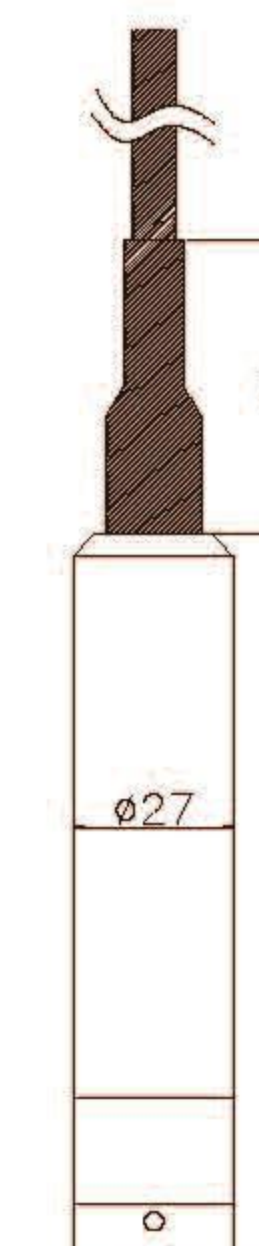
1. Integrated design
2. Optional output
3. Reverse polarity protection and current-limiting protection
4. Thunder-proof, shock resistance, intrinsic safety and explosion-proof
5. Small volume, nice appearance, high cost-effective
6. High accuracy, high stability, high reliability

### Specification

|                       |                     |                    |                    |
|-----------------------|---------------------|--------------------|--------------------|
| Measuring Range       | 0~1~200m            | Accuracy           | 0.25%/0.5%F.S      |
| Stability             | $\leq 0.1\%/year$   | Overload Capacity  | 150%F.S            |
| Power Supply          | 12~30VDC            | Connecting Type    | Liquid Level Cable |
| Protection Grade      | IP68                | Relative Humidity  | 0~90%              |
| Operating Temperature | -30~80 $^{\circ}$ C | Medium Temperature | 0~60 $^{\circ}$ C  |

### Selection Guide

| Selection Guide of QYB200 Level Transmitter |                                 |          |
|---|---------------------------------|----------|
| QYB200                                      |                                 |          |
| Output Signal                               | I                               | 4~20mA   |
|   | R                               | RS485    |
|   | V                               | 0~5V/10V |
| Measuring Range                             | According to customer's request |          |





## QYB201 Split Liquid Level Transmitter

### Overview

QYB201 is used in various level measuring in petroleum, chemical engineering, metallurgy, electric power, pharmacy, water supply and environment protection. It can display on site and transmit to standard signal such as 4-20mA, RS485 and HART.

### Main Features

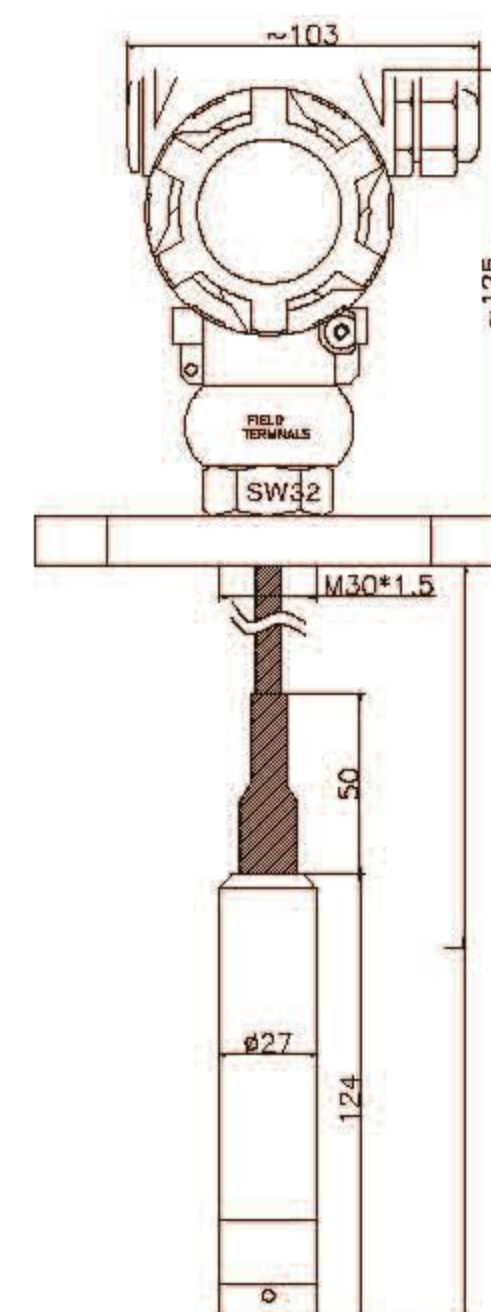
- 1.Optional span
- 2.Digital display of liquid level
- 3.Zero and span adjustment easily
- 4.Reverse polarity protection and current-limiting protection
- 5.Thunder-proof, shock resistance, intrinsic safety and explosion-proof
- 6.Small volume, nice appearance, high cost-effective
- 7.High accuracy, high stability, high reliability

### Specification

|                       |            |                    |                 |
|-----------------------|------------|--------------------|-----------------|
| Measuring Range       | 0~1~200m   | Accuracy           | 0.25%~0.5%F.S   |
| Stability             | ≤0.1%/year | Overload Capacity  | 150%F.S         |
| Power Supply          | 12~30VDC   | Connecting Type    | Terminal Blocks |
| Protection Grade      | IP68       | Relative Humidity  | 0~90%           |
| Operating Temperature | -30~80℃    | Medium Temperature | 0~60℃           |

### Selection Guide

| Selection Guide of QYB201 Level Transmitter |                                 |             |
|---|---------------------------------|-------------|
| QYB201                                      |                                 |             |
| Output Signal                               | I                               | 4~20mA      |
|   | R                               | RS485       |
|   | H                               | HART+4~20mA |
| Display                                     | W                               | Non-display |
|   | X                               | LED         |
|   | Y                               | LCD         |
| Measuring Range                             | According to customer's request |             |



## All-Welded Submersible Level Transmitter QYB202

### Overview

QYB202 is widely used in Petroleum, chemical engineering, generating station, public water supply, hydrological survey etc.

### Main Features

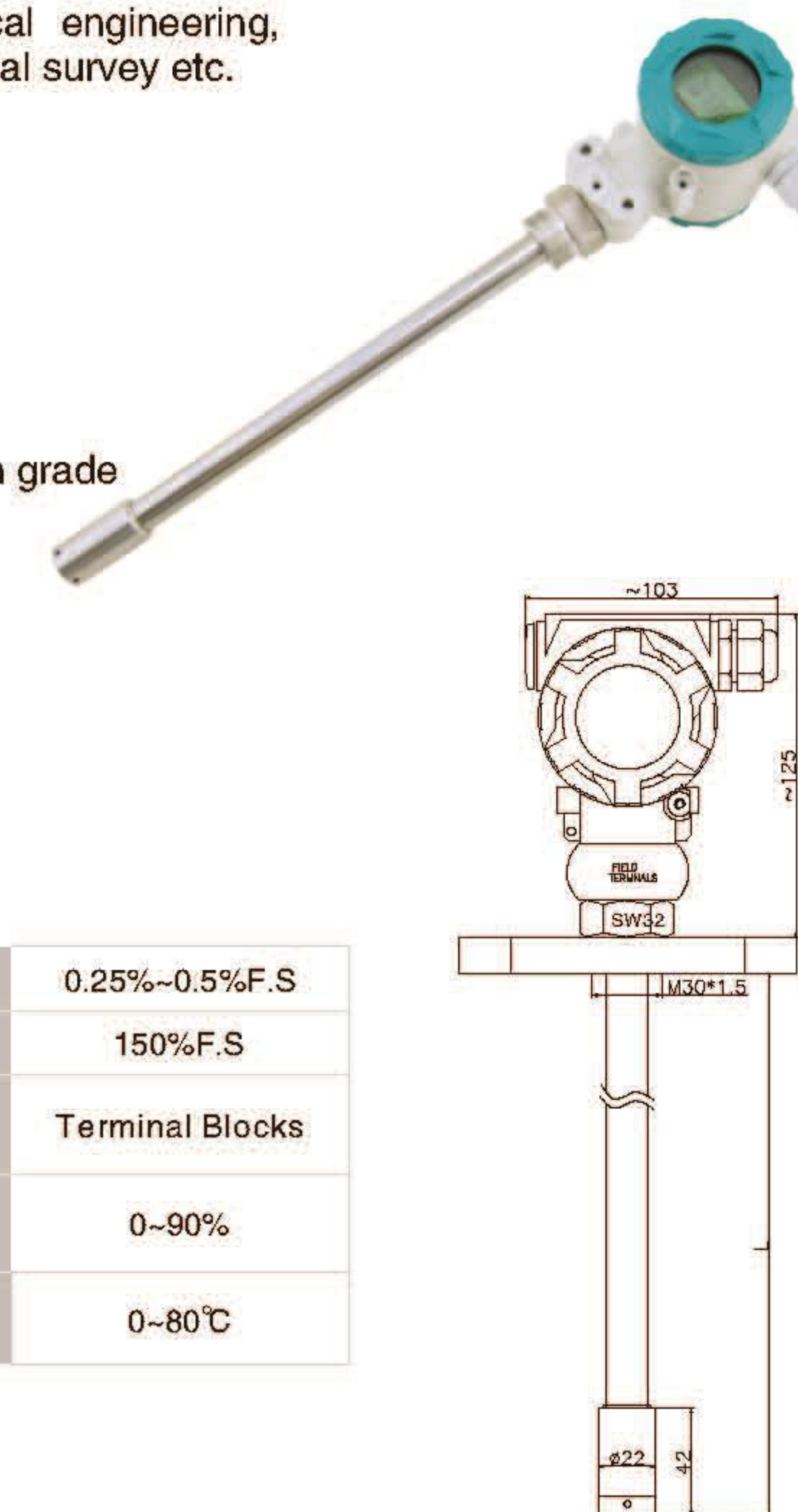
- 1.All-welded structure, waterproof, high protection grade
- 2.Multi-display model
- 3.Diffused silicon piezoresistive sensor
- 4.Anti-corrosion stainless steel case

### Specification

|                       |            |                    |                 |
|-----------------------|------------|--------------------|-----------------|
| Measuring Range       | 0~3m       | Accuracy           | 0.25%~0.5%F.S   |
| Stability             | ≤0.1%/year | Overload Capacity  | 150%F.S         |
| Power Supply          | 12~30VDC   | Connecting Type    | Terminal Blocks |
| Protection Grade      | IP68       | Relative Humidity  | 0~90%           |
| Operating Temperature | -30~80℃    | Medium Temperature | 0~80℃           |

### Selection Guide

| Selection Guide of QYB202 Level Transmitter |                                 |             |
|---|---------------------------------|-------------|
| QYB202                                      |                                 |             |
| Output Signal                               | I                               | 4~20mA      |
|   | R                               | RS485       |
|   | H                               | Hart        |
| Display                                     | W                               | Non-display |
|   | X                               | LED         |
|   | Y                               | LCD         |
| Measuring Range                             | According to customer's request |             |
| Rod Length                                  | ( L ) m                         |             |





## QYB203 Level Transmitter with Air Collector

### Overview

QYB203 is composed of stainless steel air collector, stainless steel capillary tube and terminal box. When air collector is put into measured liquid, the air in the collector would be compressed, therefore the changing air pressure would be transmitted through the capillary tube to the sensor. This type of transmitter is made to avoid the direct contact between sensor and measured medium, such as high temperature, corrosive liquid, been widely used in environmental industry, hydraulic, chemical engineering, sewage etc.

### Main Features

- 1.High temperature resistance.
- 2.Simple installation.
- 3.All-stainless steel welded.
- 4.Corrosion resistance.

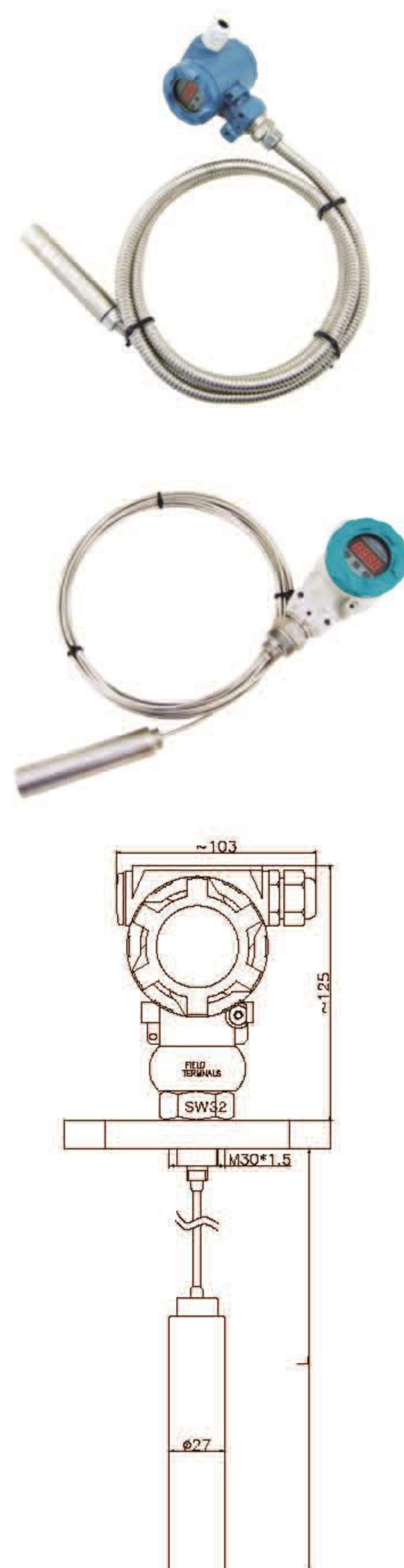
### Specification

|                       |            |                    |                 |
|-----------------------|------------|--------------------|-----------------|
| Measuring Range       | 0~20m      | Accuracy           | 0.25%~0.5%F.S   |
| Stability             | ≤0.1%/year | Overload Capacity  | 150%F.S         |
| Power Supply          | 12~30VDC   | Connecting Type    | Terminal Blocks |
| Protection Grade      | IP68       | Relative Humidity  | 0~90%           |
| Operating Temperature | -30~80℃    | Medium Temperature | -40~120℃        |

Remark: Heat radiator must be used if medium temperature over 80℃.

### Selection Guide

| Selection Guide of QYB203 Level Transmitter |                                 |             |
|---|---------------------------------|-------------|
| QYB203                                      |                                 |             |
| Output Signal                               | I                               | 4~20mA      |
|   | R                               | RS485       |
|   | H                               | Hart        |
| Display                                     | W                               | Non-display |
|   | X                               | LED         |
|   | Y                               | LCD         |
| Measuring Range                             | According to customer's request |             |



## Anti-Corrosion Level Transmitter QYB204

### Overview

QYB204 is equipped with ceramic capacitive sensor. To ensure the accuracy of sensor, it is equipped with temperature compensation function and linearity correction. QYB204 is been widely used in high-corrosive liquid or easily crystallographic liquid, such as petrochemical engineering, metallurgy, pharmacy, drainage etc.

### Main Features

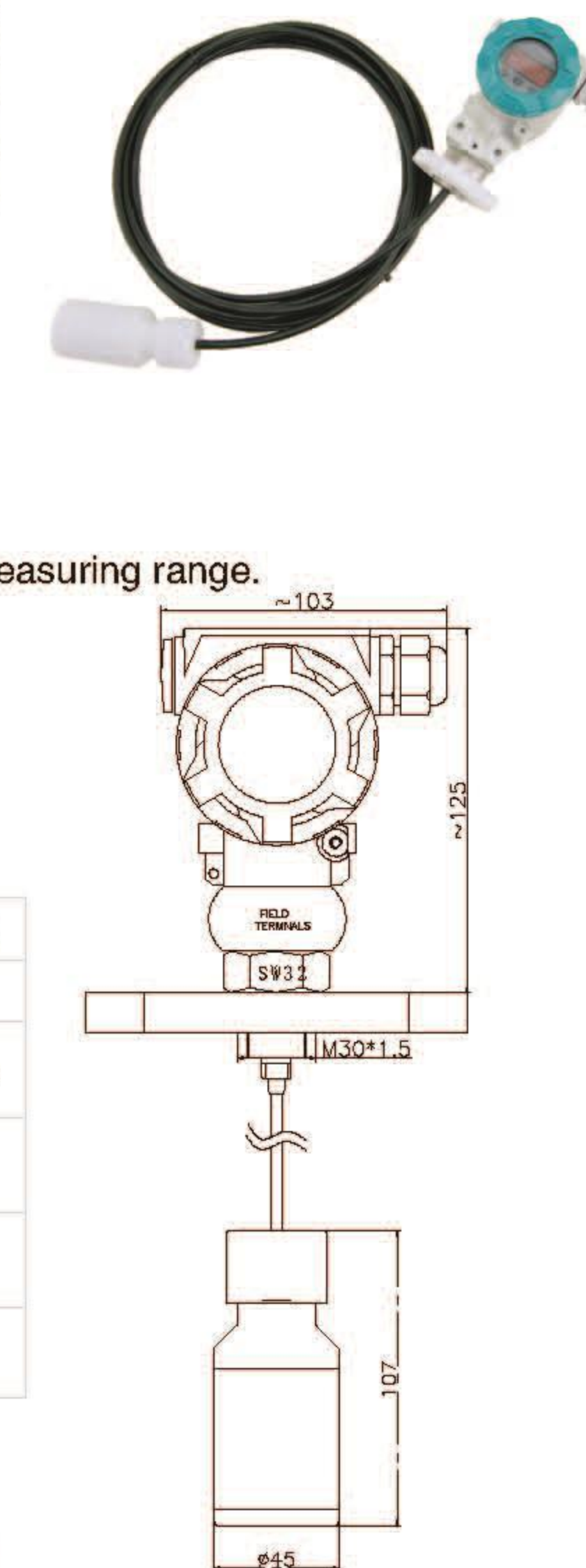
- 1.High Corrosion resistance.
- 2.High resolution ratio, apply to precision measurement of short measuring range.
- 3.Reversed polarity protection and current-limiting protection.
- 4.Anti-explosion, shock resistance, Lighting resistance
- 5.Small size with high accuracy, high stability

### Specification

|                       |            |                    |                 |
|-----------------------|------------|--------------------|-----------------|
| Measuring Range       | 0~10m      | Accuracy           | 0.25%~0.5%F.S   |
| Stability             | ≤0.1%/year | Overload Capacity  | 150%F.S         |
| Power Supply          | 12~30VDC   | Connecting Type    | Terminal Blocks |
| Protection Grade      | IP68       | Relative Humidity  | 0~90%           |
| Operating Temperature | -30~80℃    | Medium Temperature | -0~60℃          |
| Housing Material      | PTFE       | Sealing Material   | FPM             |

### Selection Guide

| Selection Guide of QYB204 Level Transmitter |                                 |             |
|---|---------------------------------|-------------|
| QYB204                                      |                                 |             |
| Output Signal                               | I                               | 4~20mA      |
|   | R                               | RS485       |
|   | V                               | 0~5/10V     |
| Display                                     | W                               | Non-display |
|   | X                               | LED         |
|   | Y                               | LCD         |
| Measuring Range                             | According to customer's request |             |





## QYB205 Level Transmitter with Glass Tube

### Overview

QYB205 is used to show the level altitude of various kinds of jar, water tower, trough, water tank. The level altitude could be observed outside of the can, and been transmitted into various standard signals.

### Main Features

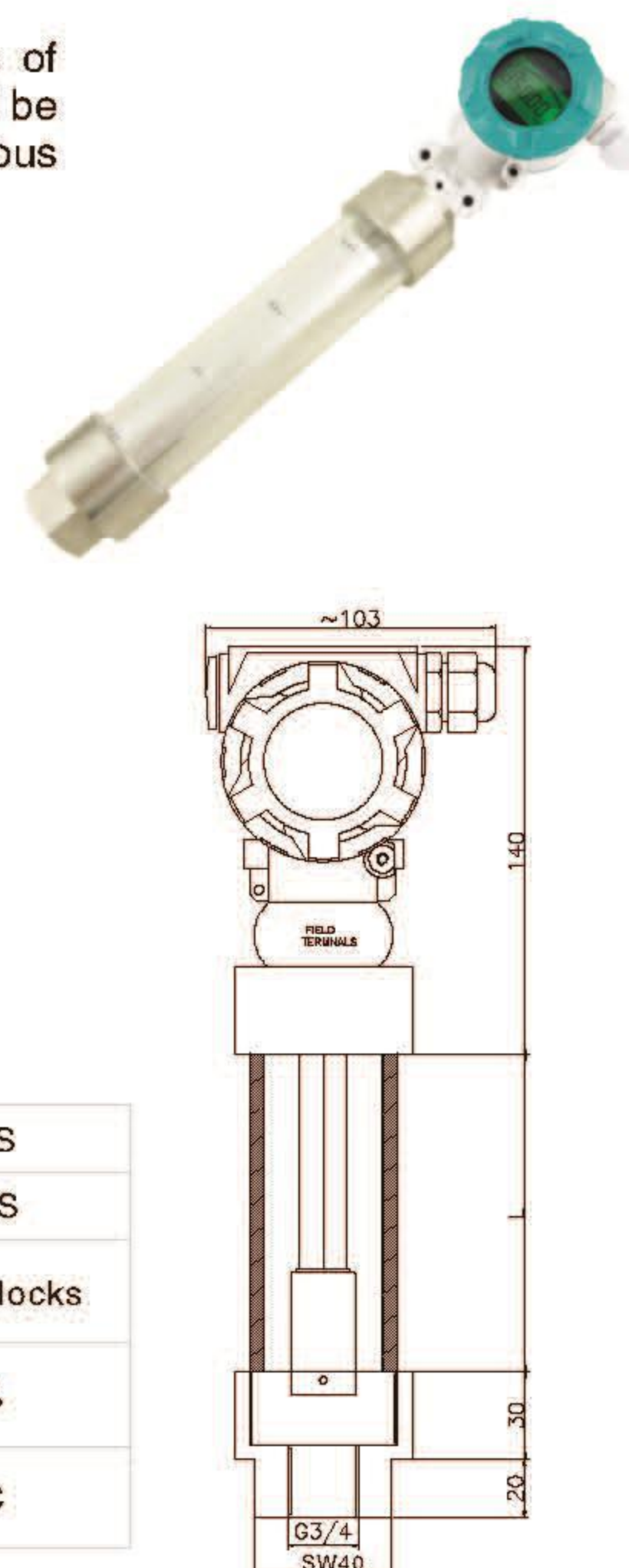
1. Double display, level ruler and digital display.
2. Easy to set zero point and range.
3. Reversed polarity protection and current-limiting protection.
4. Anti-explosion, shock resistance, Lighting resistance
5. High accuracy, high stability

### Specification

|                       |            |                    |                 |
|-----------------------|------------|--------------------|-----------------|
| Measuring Range       | 0~1m       | Accuracy           | 0.5%F.S         |
| Stability             | ≤0.1%/year | Overload Capacity  | 150%F.S         |
| Power Supply          | 12~30VDC   | Connecting Type    | Terminal Blocks |
| Protection Grade      | IP68       | Relative Humidity  | 0~90%           |
| Operating Temperature | -30~80℃    | Medium Temperature | 0~80℃           |

### Selection Guide

| Selection Guide of QYB205 Level Transmitter |                                 |             |
|---|---------------------------------|-------------|
| QYB205                                      |                                 |             |
| Output Signal                               | I                               | 4~20mA      |
|   | R                               | RS485       |
|   | H                               | Hart        |
| Display                                     | W                               | Non-display |
|   | X                               | LED         |
|   | Y                               | LCD         |
| Measuring Range                             | According to customer's request |             |



## Magnetostrictive Level Transmitter QYB220

### Overview

QYB220 is widely used to measure and control the liquid level of various fluid container in petroleum, chemical engineering, hydraulic, pharmacy, food and beverage. Compared with other level transmitter, it is a multi-functional economic level transmitter with many advantages such as various output signals, measuring level and interface at the same time etc.

### Main Features

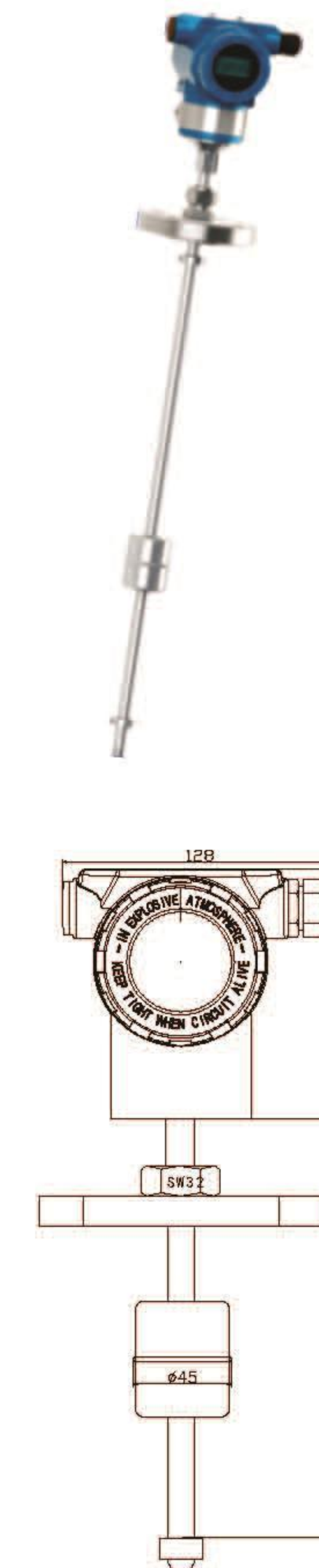
1. Non-contact constant read-out the value, long-term service life
2. High accuracy and high repetitive measurement
3. Absolute magnitude output, no need to return to zero after reset
4. Various signal options
5. It could measure several locations meanwhile
6. Anti-RF interference
7. High stain-resistance
8. Rigid Measuring bar
9. Flexible structure to measure long range

### Specification

|                       |            |                    |                 |
|-----------------------|------------|--------------------|-----------------|
| Measuring Range       | 0~3m/20m   | Accuracy           | 0.1%F.S         |
| Stability             | ≤0.1%/year | Overload Capacity  | 150%F.S         |
| Power Supply          | 12~32VDC   | Connecting Type    | Terminal Blocks |
| Protection Grade      | IP68       | Relative Humidity  | 0~90%           |
| Operating Temperature | -30~80℃    | Medium Temperature | -40~120℃        |

### Selection Guide

| Selection Guide of QYB220 Level Transmitter |                                 |                          |
|---|---------------------------------|--------------------------|
| QYB220                                      |                                 |                          |
| Structure                                   | L                               | Measure with cable 0~20m |
|   | G                               | Measure with rod 0~3m    |
| Output Signal                               | I                               | 4~20mA                   |
|   | R                               | RS485                    |
| Measuring Range                             | According to customer's request |                          |
| Rod length                                  | ( L ) m                         |                          |





## QYB240 Capacitive Level Transmitter

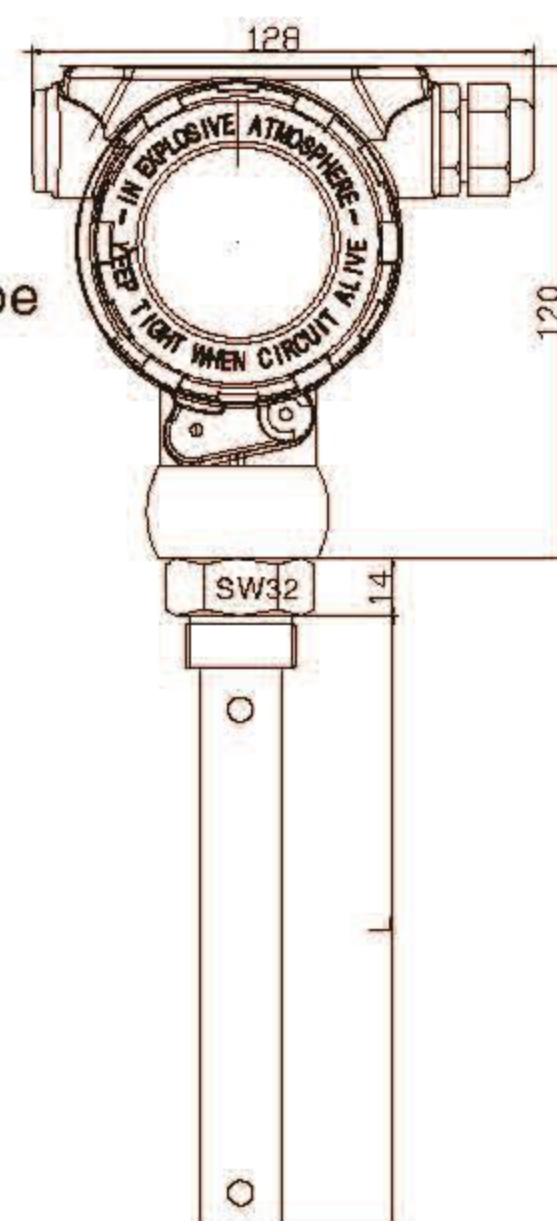
### Overview

In terms of capacitive sensing principle, QYB240 transforms various liquid altitude into standard current signal, passing to control cabin or computer for secondary instrument, alarm or automatic control. QYB240 apply to high-temperature, high-pressure, high-corrosion, easy crystallized, easy plugged medium, therefore, it is widely used in drainage, acid and alkali solution and boiler. There is no movable or flexible components in the transmitter, as a result, it also has high shock resistance.



### Main Features

- 1.Simple structure without movable or flexible components.
- 2.Several output signals, convenient for different systems.
- 3.Suitable for high-temperature, high pressure container, and the value would not influenced by temperature, pressure, specific gravity and shape of container.
- 4.Widely used in acid and alkali solution with high-corrosion.
- 5.Perfect protection for overflowing, over-pressure, current-limiting.



### Specification

|                       |            |                    |              |
|-----------------------|------------|--------------------|--------------|
| Measuring Range       | 0~0.2~30m  | Accuracy           | 1%F.S        |
| Stability             | ≤0.2%/year | Temperature drift  | ≤0.02%F.S/°C |
| Power Supply          | 12~30VDC   | Protection Grade   | IP67         |
| Operating Temperature | -30~80°C   | Medium Temperature | -50~250°C    |

### Selection Guide

| Selection Guide of QYB240 Level Transmitter |                                 |                    |  |
|---|---------------------------------|--------------------|--|
| QYB240                                      |                                 |                    |  |
| Structure                                   | L                               | Measure with cable |  |
|   | G                               | Measure with rod   |  |
| Output Signal                               | I                               | 4~20mA             |  |
|   | R                               | RS485              |  |
| Measuring Range                             | According to customer's request |                    |  |

## Digital Level Controller QYK200/202

### Overview

QYK200/202 applies to level measurement of non-sealed container. It is a multifunctional digital level transmitter which could do measure, display, transmit and control at the same time.

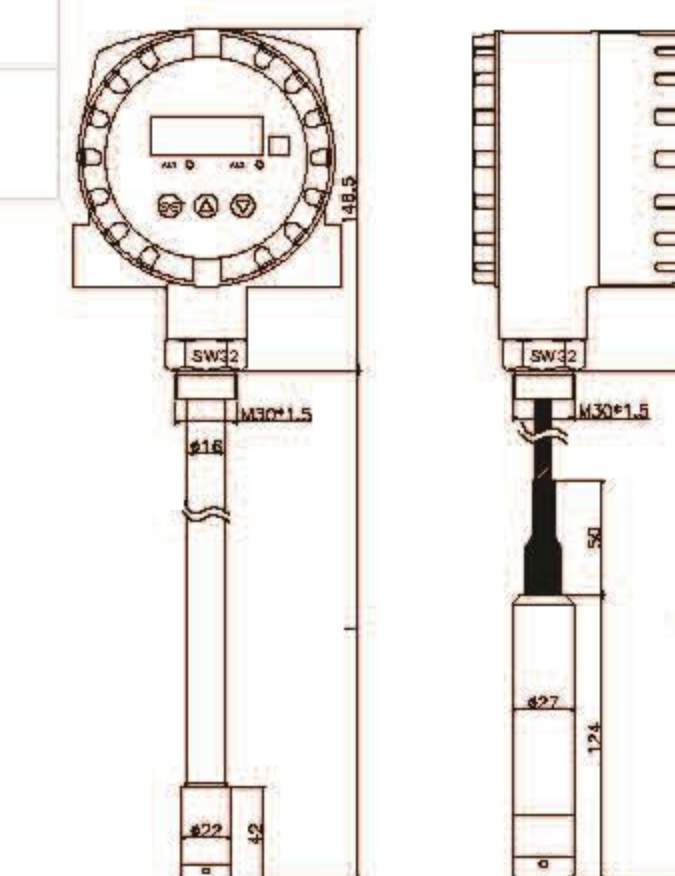
### Main Features

- 1.Remote transmission.
- 2.Multi-circuit control with electric relay
- 3.Monitoring point could be set on the transmitter.
- 4.2 output signal options: 4~20mA and RS485.



### Specification

|                    |                  |                       |                |
|--------------------|------------------|-----------------------|----------------|
| Measuring Range    | 0~0.2...3m       | Accuracy              | 0.5%F.S        |
| Overload Capacity  | 150%F.S          | Pressure Type         | Gauge Pressure |
| Stability          | ≤0.1%/12 year    | Power Supply          | 24VDC/220VAC   |
| Display            | 0.56 "Nixie Tube | Display Range         | -1999~9999     |
| Medium Temperature | 0~60°C           | Operating Temperature | -30°C~80°C     |
| Relative Humidity  | 0~90%            | Protection Grade      | IP68           |



### Selection Guide

| Selection Guide of QYK200/202 Level Transmitter |                                 |
|---|---------------------------------|
| QYK200  | Measure with cable 0~200m       |
| QYK202  | Measure with rod 0~3m           |
| Monitoring Point                                | K2 2-lines relay                |
|   | K4 4-lines relay                |
|   | K5 5-lines relay                |
| Output Signal                                   | I 4~20mA                        |
|   | R RS485                         |
| Power Supply                                    | D 24VDC                         |
|   | A 220VAC                        |
| Measuring Range                                 | According to customer's request |
| Rod length                                      | L ( m )                         |



## QTB100 Temperature Transmitter

### Overview

QTB100 is widely used in petroleum, chemical engineering, metallurgy, power station, hydrology etc.

### Main Features

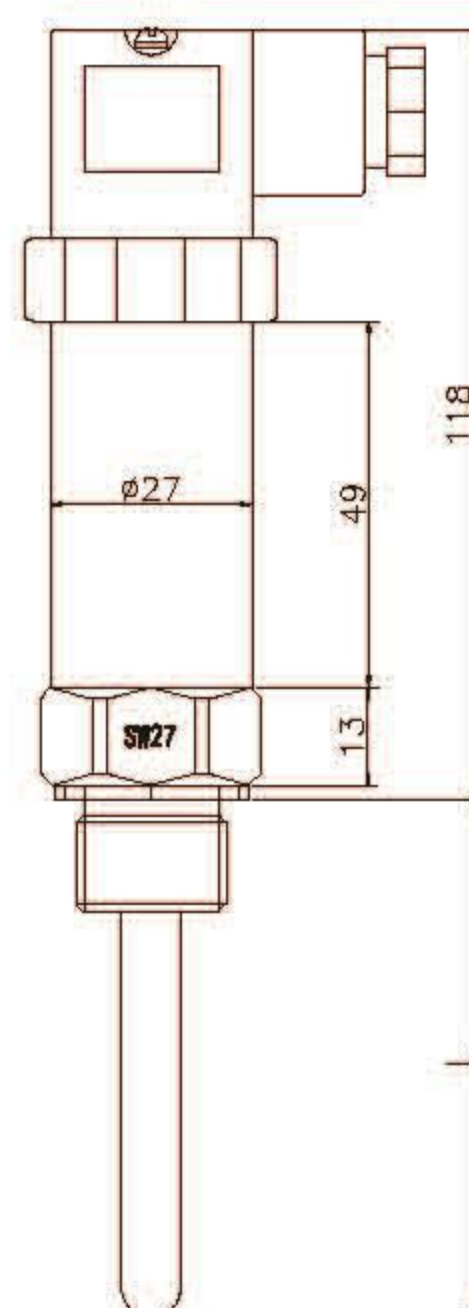
- 1.PT100 Sensor
- 2.Apply to fluid
- 3.Shock resistance and anti-corrosion
- 4.Stainless steel case

### Specification

|                     |            |                       |          |
|---------------------|------------|-----------------------|----------|
| Measuring Range     | -200~200℃  | Accuracy              | ≤0.5%F.S |
| Stability           | ≤0.1%/year | Power Supply          | 12~30VDC |
| Protection Grade    | IP65       | Operating Temperature | -30℃~80℃ |
| Storage Temperature | -40℃~85℃   | Relative Humidity     | 0~90%    |

### Selection Guide

| Selection Guide of QTB100 Temperature Transmitter |                                 |            |  |
|---|---------------------------------|------------|--|
| QTB100  |                                 |            |  |
| Electronic Connection                             | H                               | Hirschmann |  |
|   | M                               | M12        |  |
|   | Z                               | Cable      |  |
| Output Signal                                     | I                               | 4~20mA     |  |
|   | R                               | RS485      |  |
|   | V                               | 0~5V/10V   |  |
| Thread Connection                                 | G12                             | G1/2       |  |
|   | G14                             | G1/4       |  |
|   | M20                             | M20*1.5    |  |
| Measuring Range                                   | According to customer's request |            |  |
| Insert Depth                                      | L...mm                          |            |  |



## Temperature Transmitter QTB101

### Overview

QTB101 could transmit electronic signal to display, recorder, DCS etc, widely used in industry, Science Institute. It is essential for gather and distribute system and digital data-bus transmission.

### Main Features

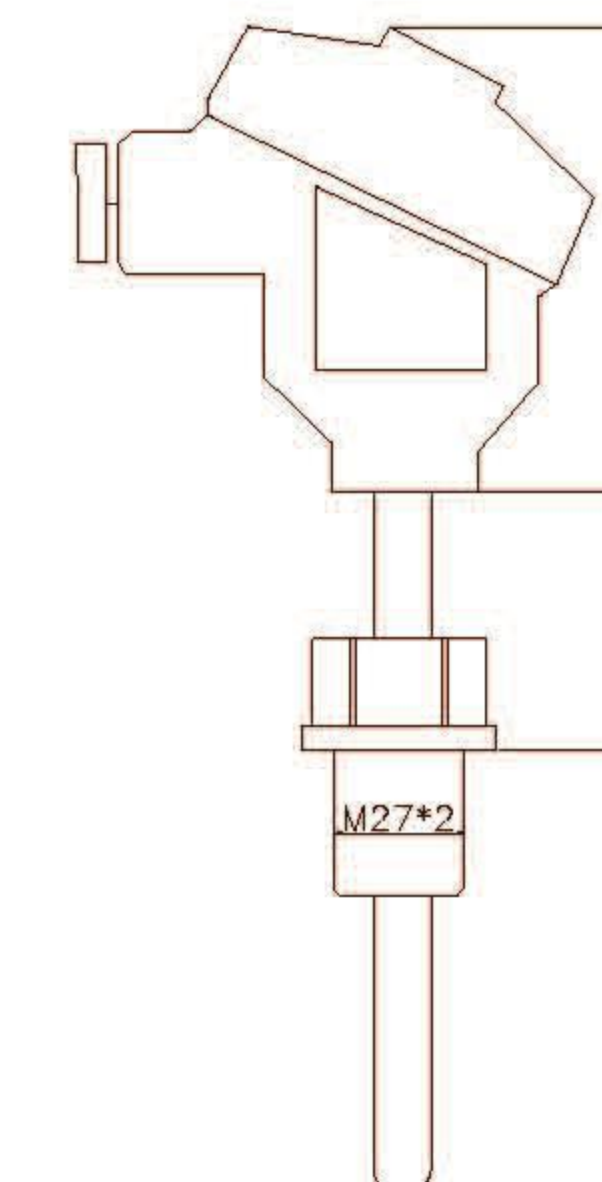
- 1.2-line 4~20mA output signal, long distance transmission.
- 2.Wide range: -200℃~1600℃.
- 3.Remote transmission with high anti-interference.
- 4.It could replace thermocouple or thermal resistance

### Specification

|                     |            |                       |          |
|---------------------|------------|-----------------------|----------|
| Measuring Range     | -200~1600℃ | Accuracy              | ≤0.5%F.S |
| Stability           | ≤0.1%/year | Power Supply          | 12~30VDC |
| Protection Grade    | IP65       | Operating Temperature | -30℃~80℃ |
| Storage Temperature | -40℃~85℃   | Relative Humidity     | 0~90%    |

### Selection Guide

| Selection Guide of QTB101 Temperature Transmitter |                                 |                    |  |
|---|---------------------------------|--------------------|--|
| QTB101  |                                 |                    |  |
| Type  | A                               | Thermocouple       |  |
|   | B                               | Thermal Resistance |  |
| Output Signal                                     | W                               | Sensor output      |  |
|   | I                               | 4~20mA             |  |
| Thread Connection                                 | M20                             | M20*1.5            |  |
|   | M27                             | M27*2              |  |
| Measuring Range                                   | According to customer's request |                    |  |
| Insert Depth                                      | L...mm                          |                    |  |





## QTB102 Temperature Transmitter

### Overview

QTB102 is a temperature transmitter which is widely used in temperature measurement of liquid and gas. It is equipped with Aluminum alloy case and imported temperature sensor.

### Main Features

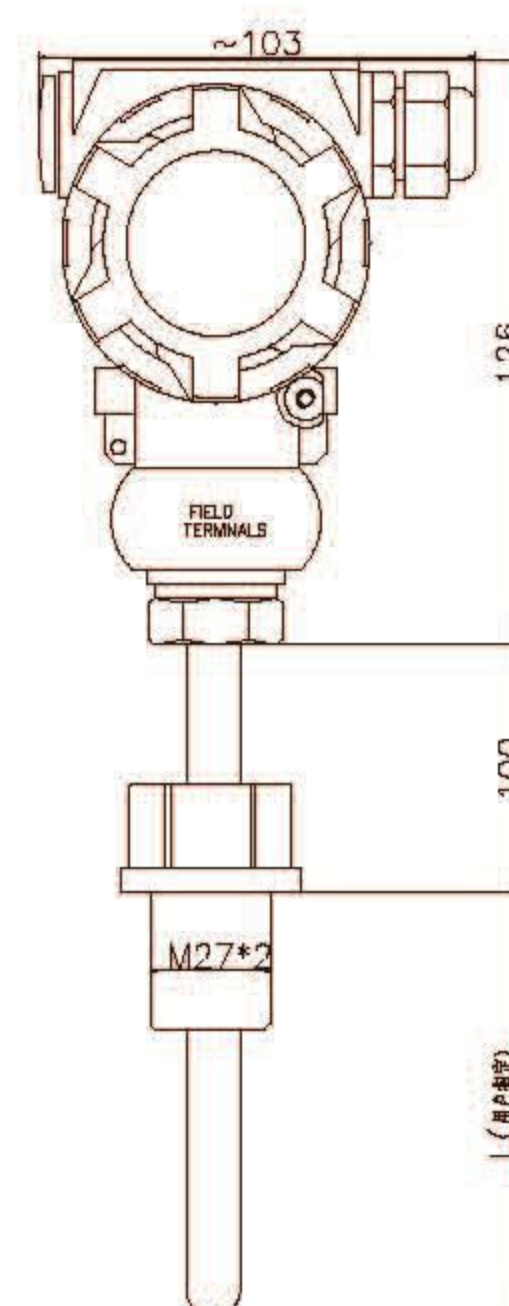
1. Aluminum alloy case
2. Imported temperature sensor, high anti-interference
3. Saving cost of compensating lead wire and installation
4. Wide range of  $-200^{\circ}\text{C}$ – $1600^{\circ}\text{C}$ .
5. Cold junction compensation and nonlinearity correcting circuit

### Specification

|                       |  |                    |                         |
|-----------------------|--|--------------------|-------------------------|
| Measuring Range       | $-200\sim 1600^{\circ}\text{C}$              | Accuracy           | $\leq 0.5\% \text{F.S}$ |
| Max pressure-bearing  | 10MPa  | Output Signal      | 4~20mA/RS485            |
| Stability             | $\leq 0.1\%/\text{year}$                     | Power supply       | 12~30VDC                |
| Display               | LED/LCD                                      | Relative Humidity  | 0~90%                   |
| Operating Temperature | $-30^{\circ}\text{C}\sim 80^{\circ}\text{C}$ | Connector Material | Stainless steel         |

### Selection Guide

| Selection Guide of QTB102 Temperature Transmitter |                                 |                    |  |
|---|---------------------------------|--------------------|--|
| QTB102  |                                 |                    |  |
| Type  | A                               | Thermocouple       |  |
|   | B                               | Thermal Resistance |  |
| Output Signal                                     | I                               | 4~20mA             |  |
|   | R                               | RS485              |  |
| Display   | W                               | Non-display        |  |
|   | X                               | LED                |  |
|   | Y                               | LCD                |  |
| Thread Connection                                 | M20                             | M20*1.5            |  |
|   | M27                             | M27*2              |  |
| Measuring Range                                   | According to customer's request |                    |  |
| Insert Depth                                      | L...mm                          |                    |  |



## Temperature Transmitter QTB103

### Overview

QTB103 is a temperature transmitter, which is widely used in petroleum industry, chemical engineering. It adopts imported temperature sensor, output 4~20mA electric current signal and Modbus digital signal.

### Main Features

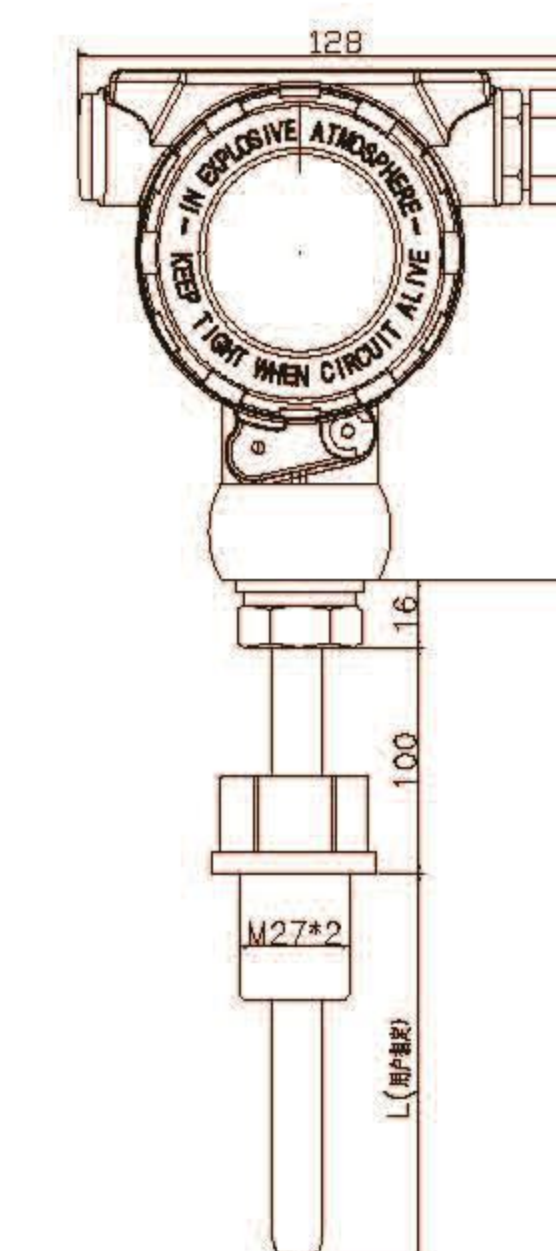
1. 3051 Extruded aluminum case
2. Backup battery could last 1 month after outage.
3. The unit of temperature could be changed directly.
4. LCD display: current, temperature, percentage.
5. Passive span shift or zoom.

### Specification

|                       |  |                    |                 |
|-----------------------|--|--------------------|-----------------|
| Measuring Range       | $-200\sim 500^{\circ}\text{C}$               | Accuracy           | 0.5%F.S         |
| Max pressure-bearing  | 10MPa  | Output Signal      | 4~20mA/RS485    |
| Stability             | $\leq 0.1\%/\text{year}$                     | Power Supply       | 12~30VDC        |
| Display               | 5 Digits LCD                                 | Relative Humidity  | 0~90%           |
| Operating Temperature | $-30^{\circ}\text{C}\sim 80^{\circ}\text{C}$ | Connector Material | Stainless steel |

### Selection Guide

| Selection Guide of QTB103 Temperature Transmitter |                                 |              |  |
|---|---------------------------------|--------------|--|
| QTB103  |                                 |              |  |
| Output Signal                                     | I                               | 4~20mA       |  |
|   | R                               | RS485+4~20mA |  |
| Thread  | M20                             | M20*1.5      |  |
| Connection  | M27                             | M27*2        |  |
| Measuring Range                                   | According to customer's request |              |  |
| Insert Depth                                      | L...mm                          |              |  |





## QTB104 Digital Temperature Transmitter

### Overview

QTB104 is widely used in water supply, petroleum, chemical engineering, machinery etc.

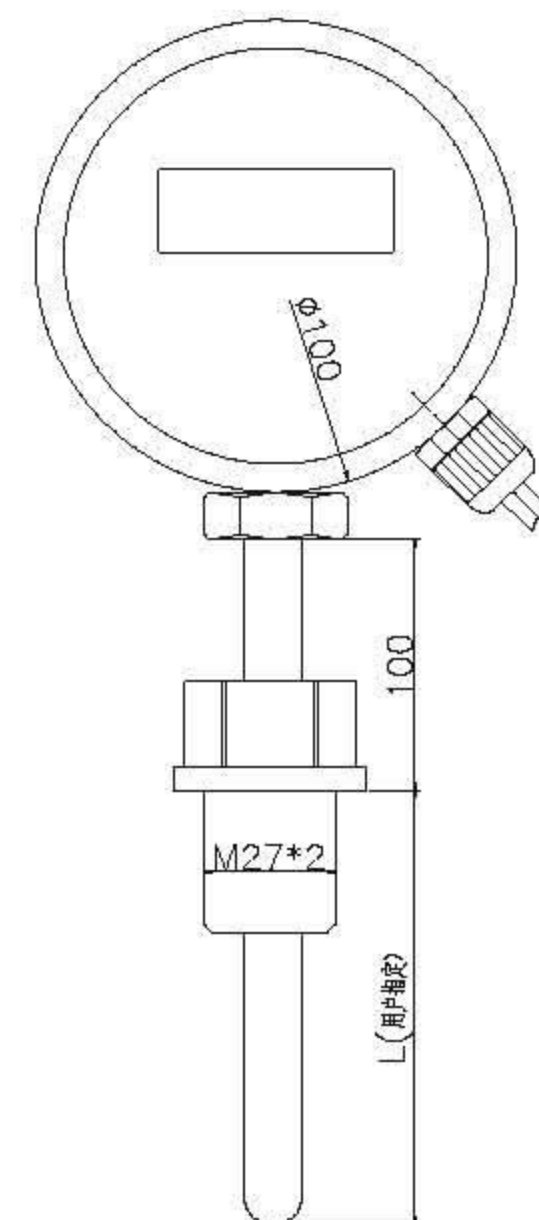
### Main Features

- 1.4 digits LED displayer.
- φ 100 standard dial plate.
- Parameter correcting, zero point and error could be amended on the board.
- Output signal: 4–20mA, Rs485.



### Specification

|                       |            |                   |                  |
|-----------------------|------------|-------------------|------------------|
| Measuring Range       | -200~500°C | Stability         | ≤ 0.1%/year      |
| Temperature Sensor    | PT100      | Power Supply      | 24VDC/220VAC     |
| Operating Temperature | -30~80°C   | Display           | 0.56" Nixie Tube |
| Accuracy              | 0.5%F.S    | Relative Humidity | 0~90%            |



### Selection Guide

| Selection Guide of QTB104 Temperature Transmitter |                                 |                  |  |
|---|---------------------------------|------------------|--|
| QTB104  |                                 |                  |  |
| Installation Type                                 | J                               | 100 Radial Mount |  |
|   | Z                               | 100 Axial Mount  |  |
| Thread Connection                                 | G12                             | G1/2             |  |
|   | M20                             | M20*1.5          |  |
|   | M27                             | M27*2            |  |
| Power Supply                                      | D                               | 24VDC            |  |
|   | A                               | 220VAC           |  |
| Measuring Range                                   | According to customer's request |                  |  |
| Insert Depth                                      | L...mm                          |                  |  |

## Wireless Temperature Transmitter QTB500

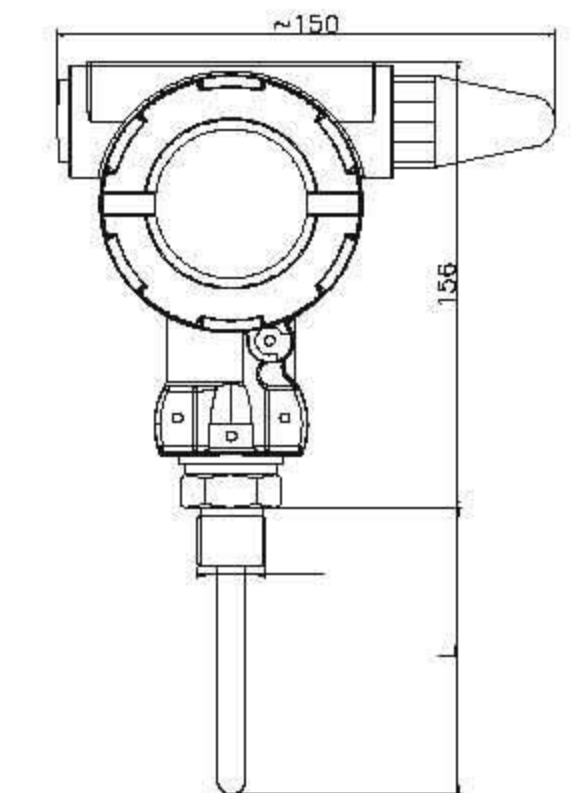
### Overview

QTB500 is a wireless temperature transmitter with low power consumption. It equipped with industrial grade MCU, wireless Zigbee data module, high-capacity lithium battery. It could monitor several points in a wide scope, used in petroleum and heating supply automation.



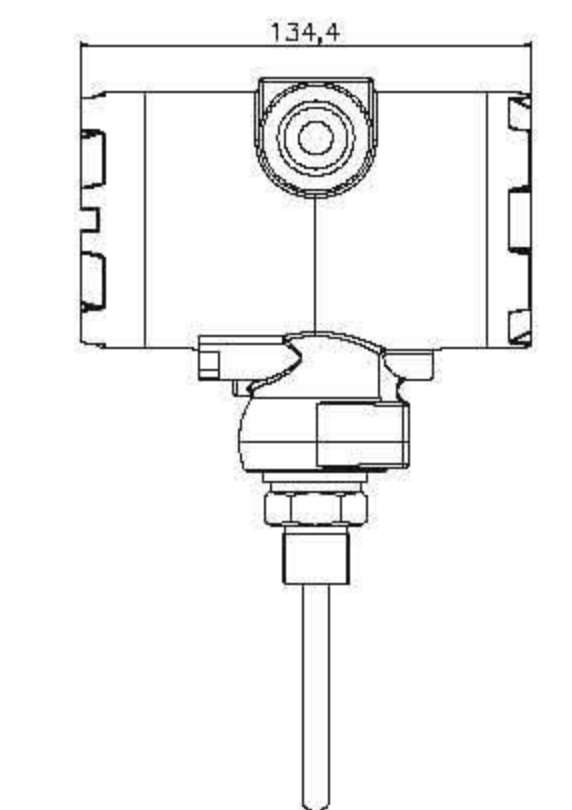
### Main features

1. Wireless measurement in pipeline, specially used in pressure measurement of oilfield and wellhead
2. Explosion-proof design and aluminum case, intrinsic safety in circuit
3. Zigbee communication, test and adjust by hand calibrator
4. Fully sealed waterproof design.
5. LED display: temperature, battery voltage, wireless channel.
6. 38Ah high-capacity lithium battery, extended working life
7. High gain antenna, wireless transmission distance of 1000m



### Specification

|                        |                |                       |                      |
|------------------------|----------------|-----------------------|----------------------|
| Measuring Range        | -200~500°C     | Accuracy              | 0.5%F.S              |
| Stability              | ≤ 0.1%/ year   | Reporting period      | 1s~10hours           |
| Signal Transmission    | ZigBee         | Transmitting Power    | ≤ 40mW               |
| Communication Distance | 1000m          | Power                 | 3.6V lithium battery |
| Explosive-proof Grade  | Exib IIB T6 Gb | Protection Grade      | IP67                 |
| Process Interface      | Customized     | Operating Temperature | -40~70°C             |
| Relative Humidity      | ≤ 90%          | Product Weight        | 2000g                |





## QTB108 Digital Temperature Gauge

### Overview

QTB108 is a battery powered temperature gauge with PT100 sensor and LED display, widely used in water supply, petroleum, chemical engineering, machinery etc. The medium shall compatible with stainless steel.

### Main Features

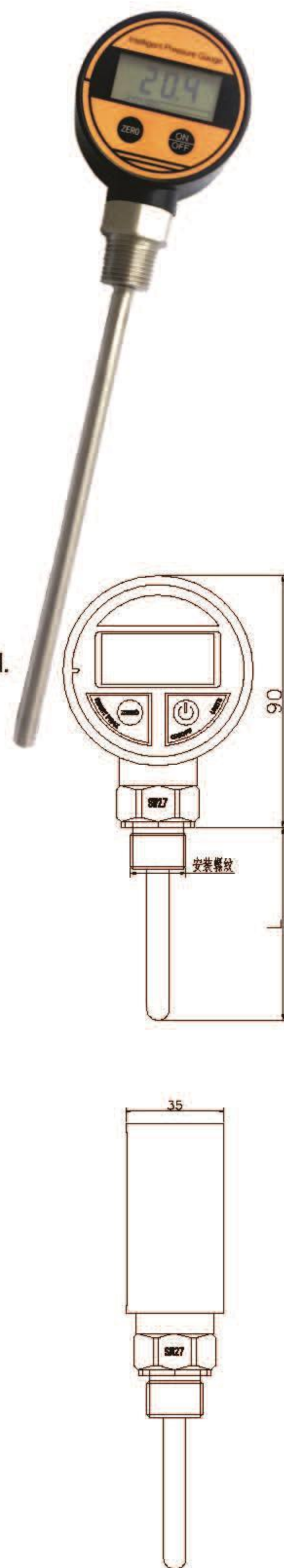
1. Large screen LCD with high resolution and no collimation error.
2. Peak value record function.
3. Progress bar display.
4. 1~15min auto power-off.
5. Micro-power consumption supports 2000hours constant working time in power-saving mode.
6. Parameter correcting, null point and error could be amended on the board.
7. Sample rate: 1 time/s.

### Specification

|                       |             |                    |                 |
|-----------------------|-------------|--------------------|-----------------|
| Measuring Range       | -200~500℃   | Accuracy           | 0.2%/0.5%F.S    |
| Stability             | ≤ 0.1%/year | Sensor             | PT100           |
| Display               | LCD         | Display Range      | -1999~9999      |
| Battery               | 9VDC        | Connector Material | Stainless steel |
| Operating Temperature | -20℃~70℃    | Relative Humidity  | 0~90%           |

### Selection Guide

| Selection Guide of QTB108 Temperature Gauge |                                 |              |  |
|---|---------------------------------|--------------|--|
| QTB108                                      |                                 |              |  |
| Installation Type                           | J                               | Radial Mount |  |
|   | Z                               | Axial Mount  |  |
| Thread Connection                           | G12                             | G1/2         |  |
|   | M20                             | M20*1.5      |  |
|   | M27                             | M27*2        |  |
| Measuring Range                             | According to customer's request |              |  |
| Insert Depth                                | L...mm                          |              |  |



## Digital Temperature Gauge QTB118

### Overview

QTB108 is a battery powered temperature gauge with PT100 sensor and LED display, widely used in water supply, petroleum, chemical engineering, machinery etc. The medium shall compatible with stainless steel.

### Main Features

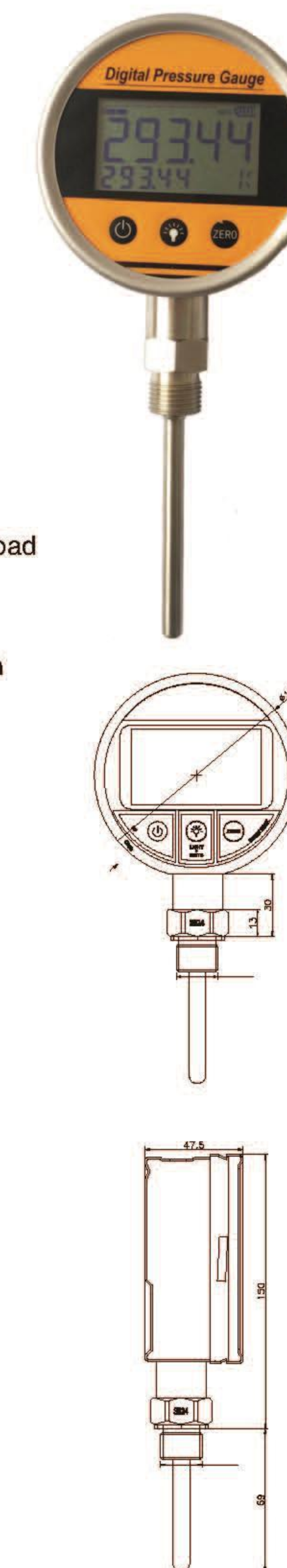
1. Large screen LCD with high resolution and no collimation error.
2. Peak value record function
3. Pressure percentage dynamic demonstration
4. 1~15min Sautomatic power-off function
5. Parameter correcting, null point and error could be amended on the board
6. Sample rate: 1 time/s
7. Backlight make it could be seen in the dark environment
- 8.5 units: °C, °F, K, Ra, Re
9. Micro-power consumption supports 5000hours constant working time in power-saving mode

### Specification

|                       |             |                    |                 |
|-----------------------|-------------|--------------------|-----------------|
| Measuring Range       | -200~500℃   | Accuracy           | 0.2%/0.5%F.S    |
| Stability             | ≤ 0.1%/year | Battery            | 3.6VDC          |
| Display               | LCD         | Display Range      | -19999~99999    |
| Operating Temperature | -20℃~70℃    | Relative Humidity  | 0~90%           |
| Sensor                | PT100       | Connector Material | Stainless steel |

### Selection Guide

| Selection Guide of QTB118 Temperature Gauge |                                 |              |  |
|---|---------------------------------|--------------|--|
| QTB118                                      |                                 |              |  |
| Installation Type                           | J                               | Radial Mount |  |
|   | Z                               | Axial Mount  |  |
| Thread Connection                           | G12                             | G1/2         |  |
|   | M20                             | M20*1.5      |  |
|   | M27                             | M27*2        |  |
| Measuring Range                             | According to customer's request |              |  |
| Insert Depth                                | L...mm                          |              |  |





**QTK102** Digital Temperature Switch

**Overview**

QTK102 is a multifunctional digital temperature transmitter which could do measure, display, transmit, switch at the same time, widely used in water supply, petroleum, chemical engineering, machinery, hydraulic industry etc.

**Main Features**

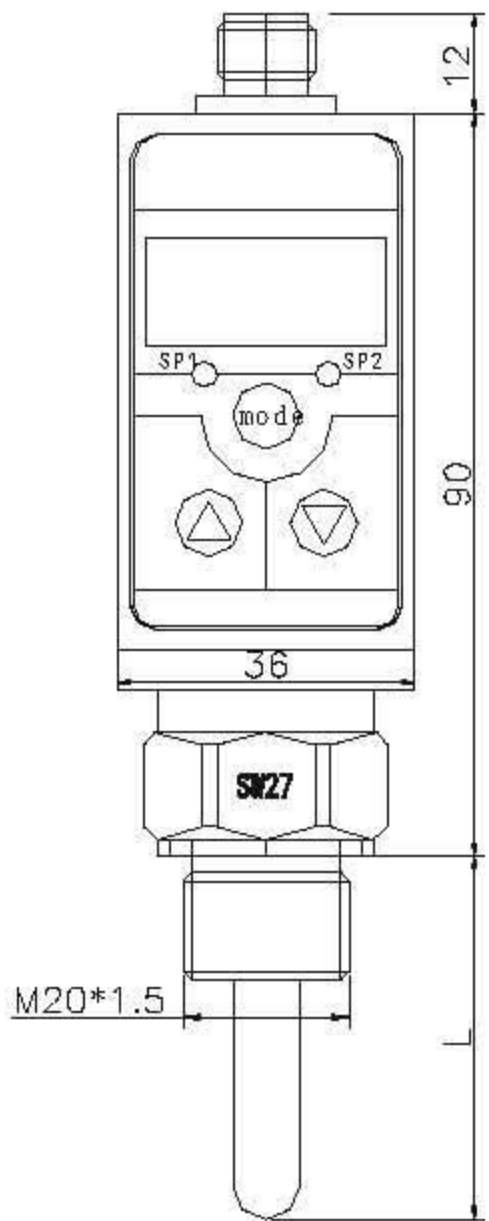
- 1.4 digits display.
- 2.Preinstall switching node and carryover output switching
- 3.Switching node could be set between zero point and full point randomly
- 4.The transmitter is equipped with luminous diode to warn the switching point
- 5.Set up parameters on site.
- 6.Two-way switch output, load capacity 1.2A
- 7.4-20mA output signal

**Specification**

|                  |              |                       |                  |
|------------------|--------------|-----------------------|------------------|
| Measuring Range  | -200~500℃    | Control Accuracy      | ≤ 0.5%F.S        |
| Stability        | ≤ 0.2%/year  | Display Accuracy      | ± 0.1%F.S        |
| Display          | 4 digits LED | Display Range         | -1999~9999       |
| Power Supply     | 24V ± 20%    | Max power Consumption | < 1W             |
| Load Capacity    | <24V/1.2A    | Switch Type           | PNP/NPN          |
| Responsive Time  | <3ms         | Working Life          | >1 million times |
| Protection Grade | IP65         | Connector Material    | Stainless steel  |

**Selection Guide**

| Selection Guide of QTK102 Temperature Switch |                                 |                                   |  |
|--|---------------------------------|-----------------------------------|--|
| QTK102                                       |                                 |                                   |  |
| Electronic Connection                        | H                               | Ong Analog ( Hirsch mann )        |  |
|  | M                               | Two-way switch+One Analog(M12-5P) |  |
| Thread Connection                            | G12                             | G1/2                              |  |
|  | M20                             | M20*1.5                           |  |
| Switch Type                                  | P                               | PNP                               |  |
|  | N                               | NPN                               |  |
| Measuring Range                              | According to customer's request |                                   |  |
| Insert Depth                                 | L...mm                          |                                   |  |



Digital Temperature Switch **QTK103**

**Overview**

QTK103 is a multifunctional digital temperature transmitter which could do measure, display, transmit, switch at the same time, widely used in water supply, petroleum, chemical engineering, machinery, hydraulic industry etc.

**Main Features**

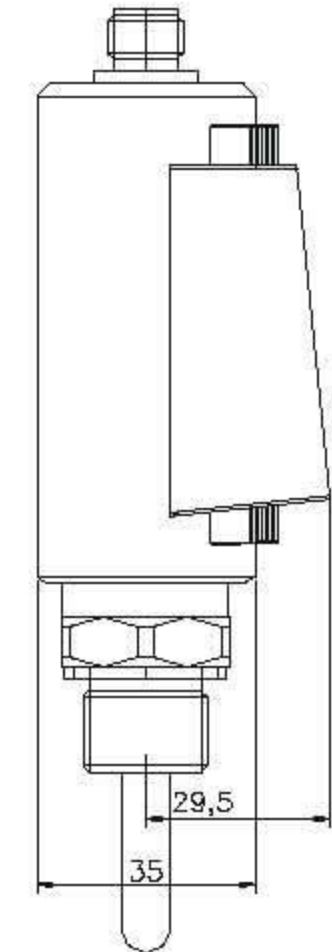
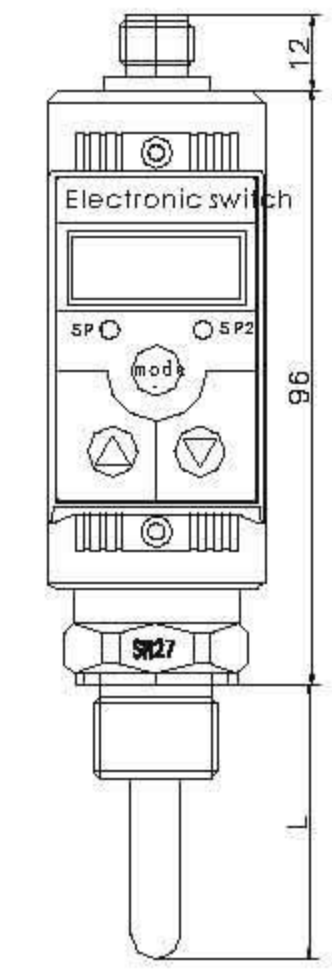
- 1.4 digits display.
- 2.Preinstall switching node and carryover output switching.
- 3.Switching node could be set between null point and extreme point randomly.
- 4.The transmitter is equipped with luminous diode to warn the switching point.
- 5.Set up parameters on site.
- 6.Two-way switch output, load capacity 1.2A
- 7.4-20mA Analog output.
- 8.330° rotary display window

**Specification**

|                  |              |                       |                  |
|------------------|--------------|-----------------------|------------------|
| Measuring Range  | -200~500℃    | Control Accuracy      | ≤ 0.5%F.S        |
| Stability        | ≤ 0.2%/year  | Display Accuracy      | ± 0.1%F.S        |
| Display          | 4 digits LED | Display Range         | -1999~9999       |
| Power Supply     | 24V ± 20%    | Max power Consumption | < 1W             |
| Load Capacity    | <24V/1.2A    | Switch Type           | PNP/NPN          |
| Responsive Time  | <5ms         | Working Life          | >1 million times |
| Protection Grade | IP65         | Connector Material    | Stainless steel  |

**Selection Guide**

| Selection Guide of QTK103 Temperature Switch |                                 |                                   |  |
|--|---------------------------------|-----------------------------------|--|
| QTK103                                       |                                 |                                   |  |
| Electronic Connection                        | H                               | One Analog ( Hirschman )          |  |
|  | M                               | Two-way switch+One Analog(M12-5P) |  |
| Thread Connection                            | G12                             | G1/2                              |  |
|  | M20                             | M20*1.5                           |  |
| Switch Type                                  | P                               | PNP                               |  |
|  | N                               | NPN                               |  |
| Measuring Range                              | According to customer's request |                                   |  |
| Insert Depth                                 | L...mm                          |                                   |  |





## QTK104 Digital Temperature Controller

### Overview

QTK104 is a multifunctional digital temperature transmitter which could do measure, display, transmit, switch at the same time, equipped with PT100 sensor which transmit signal by A/D, output is one-way analog value and 2 lines switching value.

### Main Features

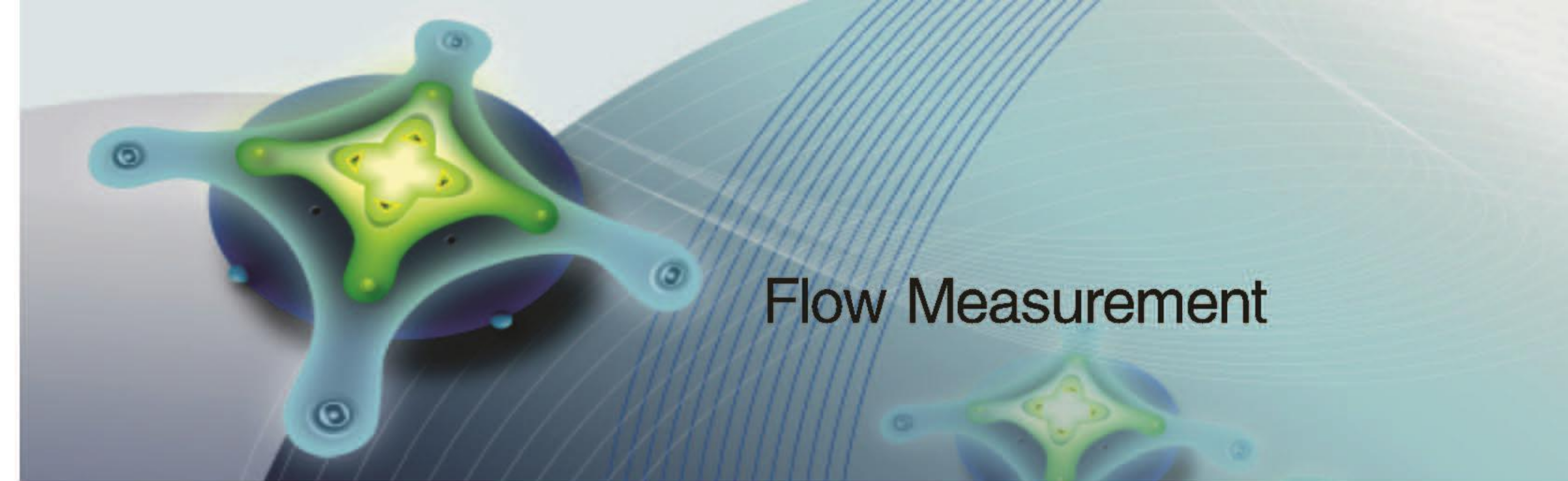
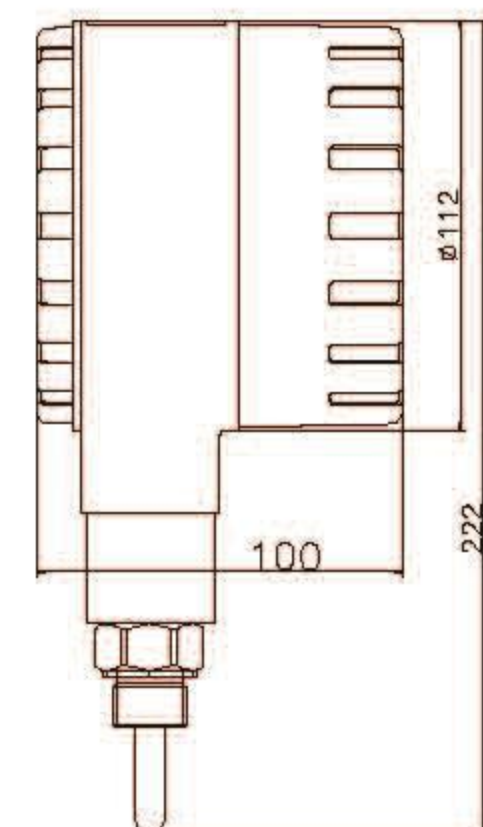
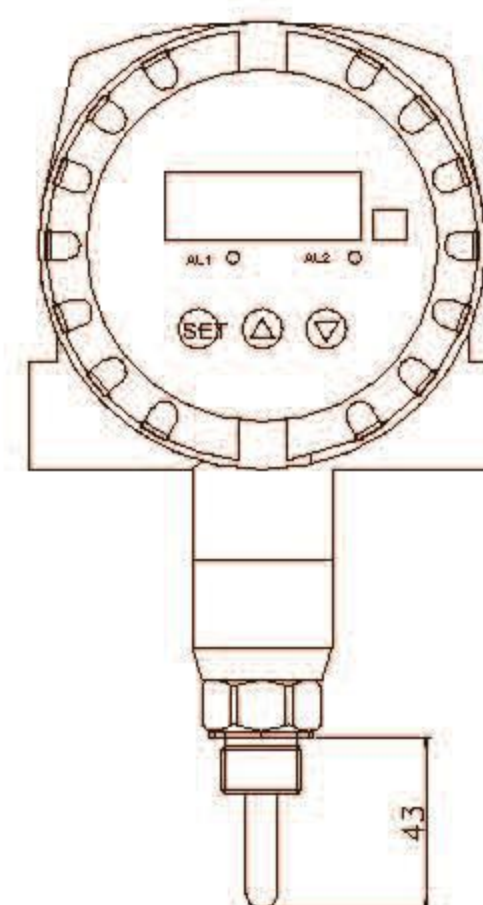
- 1.4 digits display with no collimation error.
- φ 100 standard dial plate.
- 3.2 switching point with electronic relay, output is 220V/3A.
- Switching points could be modified on the board directly.
- 4-20mA Output signal.

### Specification

|                   |                 |                       |                 |
|-------------------|-----------------|-----------------------|-----------------|
| Measuring Range   | -200~500℃       | Control Accuracy      | ≤0.5%F.S        |
| Display Accuracy  | ±0.1%F.S        | Sensor                | PT100           |
| Stability         | ≤0.2%/year      | Power Supply          | 24VDC/220VAC    |
| Display           | 0.56"Nixie Tube | Display Range         | -1999~9999      |
| Responsive Time   | <30ms           | Operating temperature | -30℃~80℃        |
| Relative Humidity | 0~90%           | Connector Material    | Stainless steel |

### Selection Guide

| Selection Guide of QTK104 Temperature Controller |                                 |                     |  |
|--|---------------------------------|---------------------|--|
| QTK104   |                                 |                     |  |
| Installation Type                                | J                               | 100 Radial Mount    |  |
|  | Z                               | 100 Axial Mount     |  |
|  | B                               | Anti-explosion Case |  |
| Thread connection                                | G12                             | G1/2                |  |
|  | M20                             | M20*1.5             |  |
|  | M27                             | M27*2               |  |
| Switch Type                                      | D                               | 24VDC               |  |
|  | A                               | 220VAC              |  |
| Measuring Range                                  | According to customer's request |                     |  |
| Insert Depth                                     | L..mm                           |                     |  |



## Flow Measurement

## QLK400 Thermal Flow Switch

### Overview

QLK400 is a flow transmitter with switch which could do real-time monitoring of liquid in the pipeline and it shall show the flow condition by several LED displays. It can monitor following conditions:  
Flow speed increasing or reducing, medium exists or not, the medium is moving or not.  
It is used to protect idling pump and monitor the flow rate in the pipeline.

### Main Features

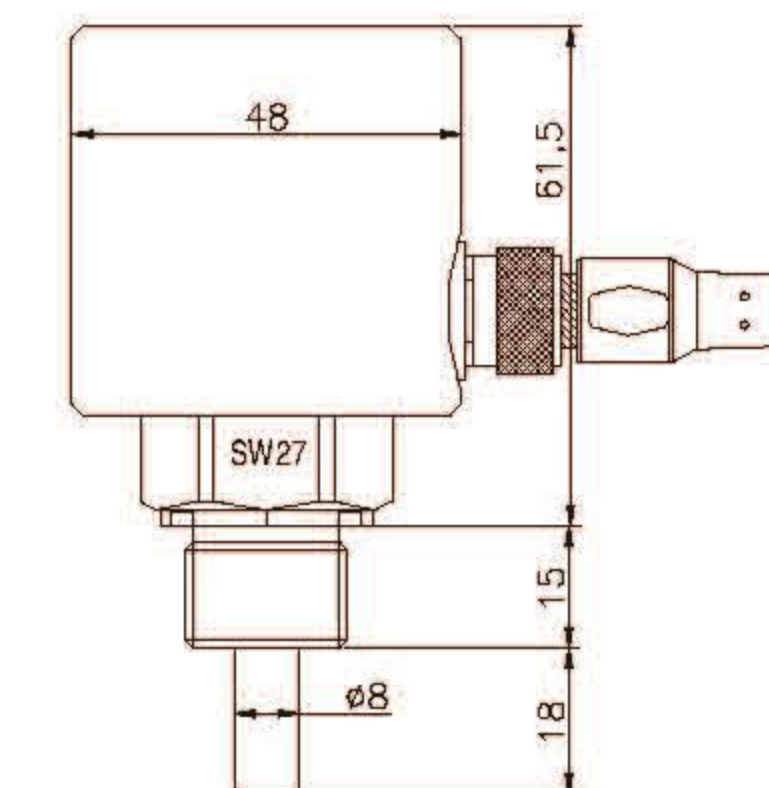
1. All stainless-steel case without movable components
2. Maintenance-free
3. Switching point could be set on site
4. LED display shows flow state and on-off state

### Specification

|                           |                                    |                    |                 |
|---------------------------|------------------------------------|--------------------|-----------------|
| Measuring Range           | 1~150cm/s(water)<br>3~300cm/s(oil) | Consumed Current   | <90mA DC        |
| Switch Type               | electric appliance<br>/PNP/NPN     | Power Supply       | 24 ± 20%VDC;    |
| Protection Grade          | IP67                               | Response Time      | 2s              |
| Operating Temperature     | -30~80℃                            | Medium Temperature | -20~80℃         |
| Dielectric strength level | 10MPa                              | Housing material   | Stainless steel |

### Selection Guide

| Selection Guide of QLK400 Flow Transmitter |    |       |  |
|--|----|-------|--|
| QLK400                                     |    |       |  |
| Switch Type                                | J  | Relay |  |
|  | P  | PNP   |  |
|  | N  | NPN   |  |
| Insert depth                               | L1 | 15mm  |  |
|  | L2 | 18mm  |  |
|  | L3 | 40mm  |  |
|  | L4 | 60mm  |  |





## Components Selection

### High Temperature Components

|   |   |   |
|---|---|---|
|  |  |  |
| G01   | G02   | G03   |
| Suitable for 0~150°<br>Withstand Voltage 10MPa                                    | Suitable for 0~150°<br>Withstand Voltage 100MPa                                   | Suitable for 0~300°<br>Withstand Voltage 100MPa                                     |

### Installation Components

|   |   |   |
|---|---|---|
|  |  |  |
| A01   | A02   | A03   |
| Suitable for 2088 Installation  | Suitable for QYK102   | Suitable for QYK103   |

### Others

|   |   |   |
|---|---|---|
|  |  |  |
| Flange  | Welded Base   | Adapter Substitute  |

## Appendix: Corrosion Resistance Reference of Contact Medium Part

| Classify  | Medium Name  | Concentration | Temperature | Carbon | 316 | Hastelloy C | Monel | Tantalum | Classify              | Medium Name                                  | Concentration                                   | Temperature | Carbon | 316 | Hastelloy C | Monel | Tantalum |              |        |
|---|--|---------------|-------------|--------|-----|-------------|-------|----------|-----------------------|--|---|-------------|--------|-----|-------------|-------|----------|--------------|--------|
|   |  |               |             |        |     |             |       |          |                       |  |   |             |        |     |             |       |          | Organic Acid | Alkali |
| Inorganic Acid  | HCL  | 5             | RT BP       |        | C   | B           | C     | A        | Organic Acid          | HF   | 5 48  | RT BP       | C      | C   | C           | A     | C        |              |        |
|   |  | 10            | RT BP       |        | C   | B           | C     | A        |                       | CH <sub>3</sub> COOH                         | 100   | RT BP       | C      | A   | A           | A     | A        | A            |        |
|   |  | 20            | RT BP       |        | C   | B           | C     | A        |                       | HCOOH  | 50  | RT BP       | C      | C   | A           | A     | B        | A            | A      |
|   |  | 35            | RT BP       |        | C   | B           | C     | A        |                       | H <sub>2</sub> C <sub>2</sub> O <sub>4</sub> | 10  | RT BP       | C      | C   | B           | A     | B        | B            | A      |
|   | H <sub>2</sub> SO <sub>4</sub>                         | 5             | RT BP       |        |     | A           | A     | C        | A                     | Alkali                                       | C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>    | 50          | RT BP  | C   | A           | A     | B        | A            | A      |
|   |  | 10            | RT BP       |        |     | C           | A     | A        | A                     |  | NaOH  | 20          | RT BP  | A   | A           | A     | B        | A            | A      |
|   |  | 60            | RT BP       | C      |     | C           | A     | A        | A                     |  | NaOH  | 40          | RT BP  | A   | A           | A     |          | A            | C      |
|   |  | 80            | RT BP       | B      |     | C           | A     | C        | A                     |  | NaOH  | 50          | BP     | B   | A           | B     | A        | A            | A      |
|   |  | 95            | RT BP       | B      |     | C           | A     | C        | A                     |  | FeCl <sub>3</sub>                               | 30          | RT BP  | C   | C           | C     | B        | C            | A      |
|   | HNO <sub>3</sub>                                       | 10            | RT BP       | C      |     | A           | B     | C        | A                     | Salt   | NaCl  | 20℃         | RT BP  | A   | B           | A     |          | A            | A      |
|   |  | 30            | RT BP       | C      |     | A           | B     | C        | A                     |  | NH <sub>4</sub> Cl                              | 25          | RT BP  | C   | B           | B     | B        | B            | A      |
|   |  | 68            | RT BP       | C      |     | A           | B     | C        | A                     |  | CaCl <sub>2</sub>                               | 25          | RT BP  | B   | B           | A     | A        | A            | A      |
|   |  | 发烟            | RT BP       |        |     |             |       |          | A                     |  | MgCl <sub>2</sub>                               | 42          | RT BP  |     | A           | A     | B        | B            | A      |
|   | H <sub>3</sub> PO <sub>4</sub>                         | 30            | RT BP       | C      |     | A           | A     | C        | A                     | Sulfide                                      | (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> | 20℃         | RT BP  |     | A           | A     | A        | A            | A      |
|   |  | 50            | RT BP       | C      |     | A           | A     | C        | A                     |  | Na <sub>2</sub> SO <sub>4</sub>                 | 10          | RT BP  |     |             | A     | A        | A            | A      |
|   |  | 70            | RT BP       | C      |     | A           | A     | C        | A                     |  | Na <sub>2</sub> SO <sub>4</sub>                 | 50          | RT BP  | B   | B           |       | B        | A            | A      |
|   |  | 85            | RT BP       | C      |     | A           | A     | C        | A                     |  |   |             |        |     |             |       |          |              |        |
|   | 35%HCL +0.5%HN <sub>o</sub> 3                          | RT            |             |        |     |             |       |          | A                     | Nitrate                                      | NH <sub>4</sub> NO <sub>3</sub>                 | 10          | RT BP  | A   | A           | A     | C        | A            |        |
|   |  |               |             |        |     |             |       |          |                       |  | KNO <sub>3</sub>                                | All         | RT BP  | B   | B           | B     | B        | A            |        |
|   | 90%H <sub>2</sub> SO <sub>4</sub> +10%HNO <sub>3</sub> | RT            |             |        |     |             |       |          | A                     | Corrosive Gas                                | Cl <sub>2</sub>                                 | dry         | RT     | B   | A           | A     | B        | A            |        |
| wet   |  |               |             |        |     |             |       |          |                       |  |   | RT          |        | C   |             | B     | A        |              |        |
| 70%H <sub>2</sub> SO <sub>4</sub> +30%HNO <sub>3</sub>  | RT   |               |             |        |     |             |       | A        | Cl <sub>2</sub> Water | Saturation                                   |   | RT          |        | C   | B           | B     | A        |              |        |
|   |  |               |             |        |     |             |       |          |                       |  |   | RT          |        |     |             |       |          |              |        |
| 50%H <sub>2</sub> SO <sub>4</sub> +50%HN <sub>o</sub> 3 | RT   |               |             |        |     |             |       | A        |                       |  |   |             |        |     |             |       |          |              |        |
| H <sub>2</sub> CrO <sub>4</sub>                         | 20   | RT BP         |             |        |     | A           |       | A        |                       | SO <sub>2</sub>                              | wet   | RT BP       |        |     |             |       | A        |              |        |
| Aqua Regia  | HCL HN <sub>o</sub> 3                                  | RT BP         |             |        | C   | A           |       | A        |                       | H <sub>2</sub> S                             | wet   | RT          |        |     |             |       | A        |              |        |

A-Good Corrosion Resistance ( Corrosion Rate<0.13mm/year )  
 B-Normal Corrosion Resistance ( Corrosion Rate<0.13 ~ 1.3mm/year )  
 C-Bad Corrosion Resistance ( Corrosion Rate>0.13mm/year )