



KYB19 Series Submersible Level Transmitters

Description

KYB19 series use famous brands of high accuracy and high stability pressure sensor, amplified by high reliability circuit to convert the measured liquid level signal into a standard electrical output. High-quality sensors, superb packaging technology and advanced assembly process ensure product directly into the liquid level for measurement

Applications

City District Water Supply System

Ships and port facilities supporting

Water Conservancy hydrological measurement and monitoring

Recycled water and sewage treatment systems

Open tank level measurement and control of industrial site

Features

- ◆ Wide range, high accuracy
- ◆ Superior waterproof, moisture-proof, anti-condensation prope
- ◆ Intrinsically safe, wide application
- ◆ Intelligent series, with Hart protocol
- ◆ High accuracy, easy debugging
- ◆ Customized matching available



Cable Type (Integrated)



Armored Type (Split)



Specifications

Parameter	Value
Measure Media	Cable type: clean water, non-corrosive liquids
	Armored type: liquids compatible with 304 stainless steel
Pressure Range	0 ~ 170 m (minimum range of 0 ~ 0.5m)
Error in normal temperature	$\pm 0.25\% \text{FS}$, $\pm 0.5\% \text{FS}$, $\pm 1.0\% \text{FS}$
	Intelligent: $\pm 0.1\% \text{FS}$, $\pm 0.25\% \text{FS}$, $\pm 0.5\% \text{FS}$
Supply Voltage	14~36VDC, Standard: 24VDC $\pm 5\%$, Ripple < 1%
	Intelligent: 12~36VDC
	With display meter, minimum: 17VDC)
Output	4 ~20mA
	Intelligent: both 4-20mA and digital signal compatible with Hart protocol
Electrical connection	Integrated type: M16 x1.5 internal thread sealing joints
	Split type: M20 x1.5 internal thread sealing joints
Cable protection tube	Cable Type: Double wearable waterproof air guide cables
	Armored type: $\Phi 6$ armored outer diameter stainless steel tube
Medium Temperature	0°C ~70°C
Error in working temperature range	$\pm 0.5\% \text{FS}$ ($\pm 0.1\% \text{FS}$ in normal); $\pm 1.5\% \text{FS}$ ($\pm 0.25\% \text{FS}$ in normal); $\pm 3.0\% \text{FS}$ ($\pm 0.5\% \text{FS}$ in normal); $\pm 5.0\% \text{FS}$ ($\pm 1\% \text{FS}$ in normal);
Error in time drift	$\pm 0.25\% \text{FS/year}$ ($\pm 0.25\% \text{FS}$ in normal) ; $\pm 0.5\% \text{FS/year}$ ($\pm 0.5\% \text{FS}$ in normal) ; $\pm 1\% \text{FS/year}$ ($\pm 1\% \text{FS}$ in normal) ;
	Intelligent: $\pm 0.1\% \text{FS}$ in normal
Explosion-proof mark	Intrinsically safe meet GB3836.1 GB3836.4 standards
	Mark: ExiaIICT5 ~ T6
Ingress Protection	IP68 (sensor part), IP65 (electric circuit part)

Application Description

The series is divided into integrated and split two structures, which split has cable type and armored type. Armored type is suitable for various strong permeability organic solvents and alkaline solvents to maximum satisfy customers' demand. In addition, the series also has intrinsic safety explosion-proof performance, to meet the general requirements for explosive environments.

How To Order

KYB-19 **(S)** **04** **M1** **F1** **Z1** **C2** **B1** **(i)** - II

S Smart (Optional for high accuracy only)

Range

Code	Range	Accuracy(standard/smart)
01	0.5m-1m	±1.0%/±0.5%
02	1m-3.5m	±0.5%/±0.25%
03	3.5m-10m	±0.25%/±0.1%
04	10m-20m	
05	20m-70m	
06	70m-170m	

Output

M1 4-20mADC
MB ModBus
VX Customized

Structure

I Integrated
F1 Split (case model I)
F2 Split (case model II)

Steady(Split only)

Z1 3-Φ11 Mounting holes, Mounting hole circleΦ70
Z2 4-Φ14 Mounting holes, Mounting hole circleΦ90
Zx Customized

Connection

C1 Armored (Max range 15m)
C2 Cable

Display

B1 Analog display (Split only)
B2 Digital display (split only)

Safety

i Intrinsically Safe ExialICT5 (Optional)

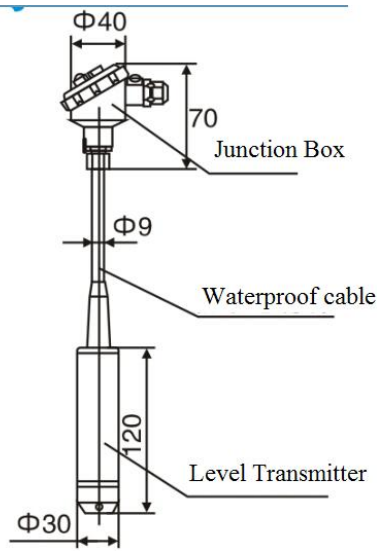
KYB1904M1F1Z1C2B1-II (0-15m)

- * Special Note: outdoor installation, please pay attention to the prevention of lightning.
- * Split intelligent products only type II case, if necessary with a header, only the DRO.
- * If the product is used in the sludge environment, the company can provide the probe attempts to prevent the bracket supporting the use.

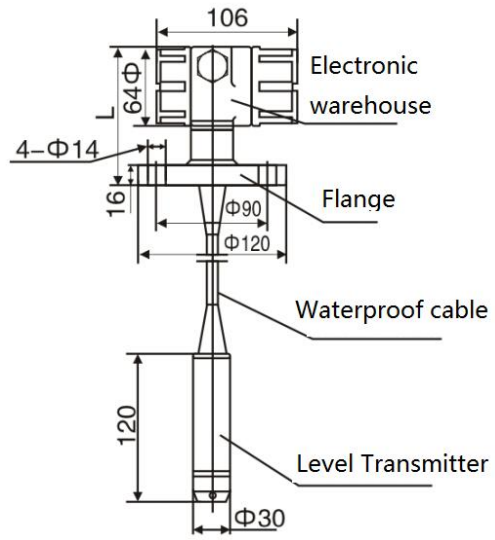
Black font is required; Red font is optional.



Dimension:

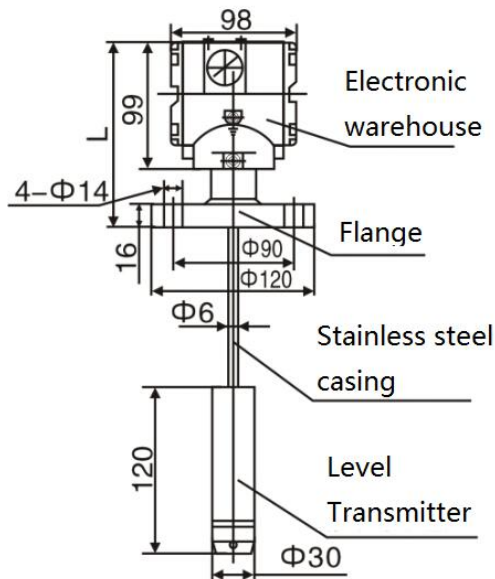


Cable Type (Integrated)



$$L:Z_1=109 \pm 3, Z_2=113 \pm 3$$

Cable Type (Split case model I)



$$L:Z_1=151 \pm 3, Z_2=155 \pm 3$$

Armored (Split case model II)

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