

PT-928 Submersible liquid level transmitter

Description :

PT-928 submersible liquid level transmitter adopts the diffused silicon pressure sensor core of an internationally renowned company, and converts the depth of the measured liquid into 4~20mA through a high-reliability amplifier circuit and precision digital temperature compensation and nonlinear correction technology. , 0~10VDC analog signal and IIC, RS485 and other standard digital signals. Fully sealed 304 stainless steel structure, protection grade IP68. Users can measure the height of various liquids conveniently, quickly and accurately. The ultra-high cost performance can be widely used in petroleum, chemical industry, metallurgy, electric power, complete water supply and other fields.

Product Features :

The high-performance diffused silicon sensor core is equipped with a highly integrated bridge pressure sensor signal conditioning advanced chip

Digital temperature compensation and nonlinear correction

A variety of signal outputs, equipped with breathable cables: perfect solution to the gauge pressure error that the sensor is not connected to the atmosphere

High sensitivity, high precision, high stability

Temperature compensation in all temperature zones, good electrical performance and long-term stability

The liquid inlet is equipped with a protective cover, which is convenient for cleaning and can effectively protect against sand, gravel and sediment

Can be customized according to customer needs and OEM OEM/laser marking

High cost performance, one year warranty

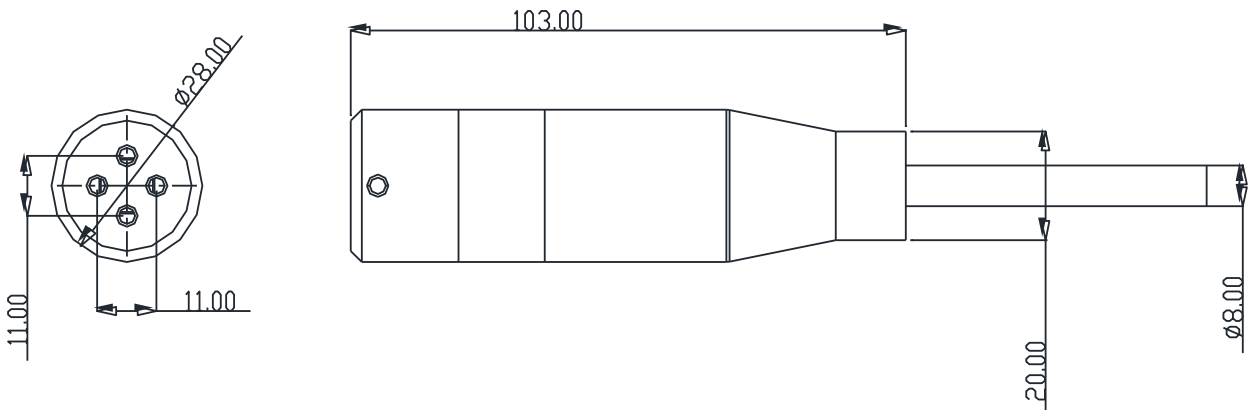
Specifications:

Measuring range	0-1000meters
Overload pressure	200%FS
Process connection	M20*1.5
Accuracy	±1%、±0.5%、±0.2%、±0.1%
Temperature drift	±0.03%/°C
Temperature compensation range	-10~70°C
Long-term	±0.3%FS/year

stability					
Working temperature	-40~85°C				
Storage temperature	-40~125°C				
Output Signal	absolute 0-10V	ratio 0-5V	4-20mA	IIC	RS485
Power supply	10-36	3.0-5.5	10-36	3.3-5.5	10-36
Load (Ω)	>10K	>10K	≤ 50 (U-10)	-	-
Ingress protection	IP68	Sealing ring	Nitrile rubber		
Medium adaptability	Various fluids without corrosion				
Vibration	10gRMS, (20~2000)Hz				
Shock	100g, 11ms				
Insulation	Greater than 100M Ω @250VDC				
Response time	Less than 1ms				

CE Approval	EMC: IEC61326-1 B type Electrostatic discharge immunity: IEC61000-4-2 Electromagnetic field immunity: IEC61000-4-3 EFT immunity: IEC61000-4-4 Surge immunity: IEC61000-4-5
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Dimensions (in mm):



Electrical Connection:

Output definition	4~20mA	Vout	IIC	RS485
①	Vin (Red)	Vin (Red)	Vin (Red)	Vin (Red)
②	GND (Black)	GND (Black)	SCL (White)	A (Yellow)
③		Vout (White)	SDA (Yellow)	B (White)
④			GND (Black)	GND (Black)

Selection tips:

1. When selecting the model, please note that the measured medium should be compatible with the part of the product in contact with the medium, and the specific gravity of the measured medium should be indicated (default is water 1g/cm^3 , $T=4^\circ\text{C}$).
2. There are various ranges of voltage input and output, which need to be specified in the order.
3. The IIC output type has no polarity protection. The installation and use process must be confirmed before powering on. The line length is less than 3 meters.
4. The cable should not be bent vertically during installation, but should be bent in a circular arc to avoid blocking the air guide hole and affecting the accuracy.
5. When measuring the flowing liquid, a hard pipe of about $\phi 50$ can be inserted into the liquid, and several small holes are opened at different heights in the opposite direction of the water flow of the pipe to avoid the influence of liquid flow on the pressure.
6. When the product is installed in areas with frequent thunderstorms, it is recommended that users install lightning protection devices.
7. For special requirements, please negotiate with our company and indicate them in the order.