HIGH TEMPERATURE LIQUID LEVEL SENSOR TRANSMITTER



Introduction

This level transmitter is mainly used for high-temperature liquids , diesel fuel etc.The probe is placed at the bottom of the liquid and pressure is applied to the diffused silicon core diaphragm by means of the gas-guided principle.
Through the 304 stainless steel probe and air pipe, it is not only widely used in various high temperature conditions, but also suitable for the detection of slightly corrosive liquids such as diesel and gasoline.

Application

Industrial sewage
Production wastewater
Chemical/medical/petroleum/food medical industry

Parameter

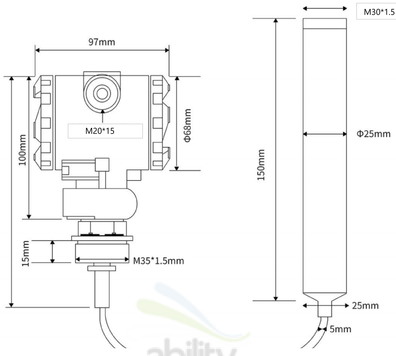
Measuring Range :	0~1m... 30m (other ranges can be customized)
Power supply :	12-36VDC (Standard 24VDC)
Output signal :	4~20mA, 1~5V, 0~5V, 0~10V,RS485
Comprehensive accuracy :	0.25%F.S 0.5%FS
Overload pressure :	150%FS
Response time :	≤ 1ms (up to 90%FS);
Working temperature :	-40°C~300°C (when the measured medium is water, the temperature is ≤90°C)
Storage temperature:	-20~65°C (Dry environment)
Zero temperature drift :	0.3%FS
Temperature drift :	0.3%FS
Long-term stability :	±2 FS/Year
Insulation :	100M /250VDC
Material:	Level probe stainless steel + stainless steel air pipe Junction box: Low content Cu-Al alloy ; Media Compatible Various media compatible with 304
Protection :	IP68
Display:	No display ,LCD/LED display

Selection

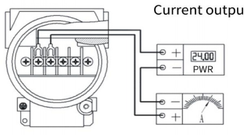
Model	QDY60B
Measuring Range	0~20m
Power Supply	P1:12VDC P2:24VDC
Output Signal	O1:4-20mA O2:0-5V O3:1-5V O4:0-10V O5:RS485
Cable	Lm:Xm,such as 5m(customized)

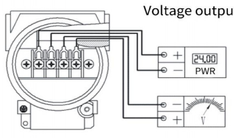
QDY60B 3mH2O P1 O1 L1 EG:QDY60B-3mH2O-P1-O1-L1

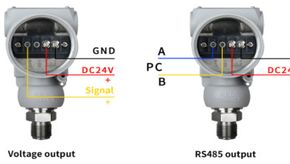
Size



Wiring

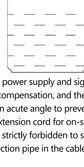






Installation Considerations

Warn!
1. The installation of equipment must be carried out without pressurization and without power supply.
2. It is forbidden to measure media that is not compatible with the material of the transmitter.
3.. When receiving the product, please check whether the packaging is intact, and check whether the transmitter model and specifications match the product you purchased.
4. No modifications or alterations can be made on the device.
5. Do not use brute force when installing the transmitter.
6. If the transmitter is installed in a bad site and encounters dangerous damage such as lightning strike or overvoltage, we recommend that the user in the distribution box;
or lightning protection and overvoltage protection between the power supply and the transmitter.
7. The transmitter can be installed vertically, obliquely or horizontally in the tank and tank, which should ensure that impurities such as sediment are buried or blocked by the transmission Probe section.
8. When the medium fluctuates greatly, measures should be taken to fix the probe part of the transmitter, such as adding counterweight to the transmitter or fixing the sleeve.
When measuring the water level in flowing water, a steel pipe larger than the diameter of the probe or PVC pipe can be inserted or installed in the water, in the tube
The sub is located in the opposite direction of the water flow direction and opens several small holes of about 5mm at different heights to allow water to enter the pipe. As shown in the image



9. In addition to being used as a power supply and signal transmission, the gas conduction cable also plays a key role in atmospheric compensation, and the cable should be avoided during installation
The lock is too tight or bent at an acute angle to prevent the air tube from becoming blocked or broken.
10. When you need to add an extension cord for on-site installation, please ensure that the wiring part is kept dry and ventilated, and it is strictly forbidden to soak and avoid moisture and dirt
Blocking the atmospheric connection pipe in the cable will cause damage to the transmitter or inaccurate measurement.
11. Please avoid the cable of the level transmitter being scratched by a knife or other sharp metal body, causing water damage to the transmitter.
12. This product belongs to weak current equipment, wiring must be separated from the strong cable, should comply with the relevant national wiring standards (GB/T 50312-2016) for wiring.
13. Ensure that the power supply voltage meets the transmitter power supply requirements.
14. Please do not disassemble by yourself when using, let alone touch the diaphragm, so as not to cause damage.