



SHLT02 Diffusive Silicon Level Transmitter

Product Overview

SHLT02 Diffusive Silicon Series level transmitters are the extension and development of pressure transmitter technology. According to the principle that the liquid with different specific gravity are in linear relation to the pressure generating at different height to realize the accurate measurement and transmission of volume, level height and weight of water, oil and paste-state matters. They are widely used in the industries such as power, petroleum, chemical engineering, metallurgy, water utilization, running water and food, etc.

Features

- Simple installation, convenient use, strong interchange ability; hi-quality, high sensitivity, fast response rate, can accurately react the subtle change of moving or static level, and high measuring accuracy.
- Possess the ability of intrinsically safe explosion separation and explosion-proof; can be applied to all kinds of hazardous fields.
- Can be equipped with LCD digital display
- 4~20mA DC two-wire output, strong interference-resistant ability, long transmitting distance.
- Fine and unique zero, temperature shift and non-linearity compensation ensure the instrument in the range of using conditions to have a stable accuracy for a long time.

Technical Specification

Table 1

Table 1		
Measuring range	(0-0.5~200)m (ρ=1g/cm3)	
Over load	150%FS~200%FS	
Accuracy	0.5 ,0.2	
Medium	Compatible to stainless steel or PTFE	
Working temperature	(-20~80) °C, medium should not be solid	
Power supply	(12~45)VDC, normal 24VDC	
Output	2 wire 4-20mA,4-20mA+HART, MODBUS	
Ingress protection:	Sensor IP68, Transmitter IP65 (Std.) or IP67	
Stability	0.2%FS/year	
Working temperature	(-20~85) °C, medium should not be solid	
Stability	≤± 0.2 % /URL (12 months)	
Temperature compensation	0-50 °C	
Response time	0.25s	
Effect of power supply:	≤± 0.005% /URL/V	

Model Selection

Table 2

Item	Code	Description Description
Type	Α	4-20mA Output (0.5% accuracy)
	S	4-20mA & Hart Protocol (0.25% accuracy)
	R	Modbus RS485
Product	SHLT02	Diffusive Silicon Level Transmitter
Digital indicator	1	No indicator
	3	LCD indicator
Measuring range	1	0~1 m (H₂O)
	2	0~5m (H₂O)
	3	0~3.5m (H ₂ O)
	4	0~7m (H₂O)
	5	0~10m (H ₂ O)
	6	0~20m (H ₂ O)
	7	0~35m (H ₂ O)
	8	0~70m (H ₂ O)
	9	0~100m (H ₂ O)
	Х	X-Custom level range
Explosion Proof	N	Non explosion proof (Std.)
	1	Intrinsically safe, Exia II CT6
	E	Explosion proof, Exd II CT6
Installation	1	Thread M20*1.5
	2	Thread 1/2 NPT
	3	Flange connection (Specify flange standard)
	Х	Custom
Probe material	A2	Stainless steel 304 (Std.)
	A3	Stainless steel 316L
	A4	PTFE material
	A5	Others
Cable sheath material	B1	Polyethylene
	B3	PTFE
	B2	Others
Power supply	V1	24V DC
	V2	Others
Cable length	L **	L range 1-200m, for example 5m is L005

Note: Please provide density of liquid when ordering. Otherwise we will calibrate the instruments with water (4°C, density 1g/cm³).

L2

105

125

90

φ1

27

27

30

φ2

7.2

7.2

7.5

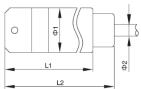
L1

92

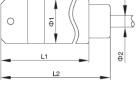
112

72

Dimension



Sensor Dimensions



72	122 (带表头) ———————————————————————————————————
深位变送器	

Transmitter Dimensions

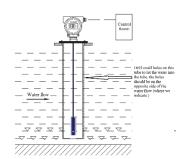
TYPICAL INSTALLATION

Type

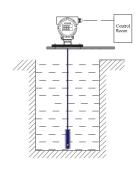
Standard

Anti-thunder Type

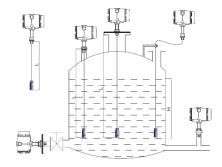
Anti-corrosive Type



Water with Vibration



Static Water



Vessel Installation