Septic tank/pumping truck capacitive liquid level sensor

GaMicos

GLTV7E

INTRODUCTION ////

GLTV7E capacitive liquid level sensor is based on the principle of capacitive sensing, which converts the change of liquid level into a standard electrical signal output. The core components of the product use highly integrated dedicated capacitance measuring chips and strong anti-hanging materials, which have the advantages of high precision, high stability and continuous measurement. It is suitable for sewage monitoring, especially the environmental liquid level monitoring of septic tanks and excrement trucks.
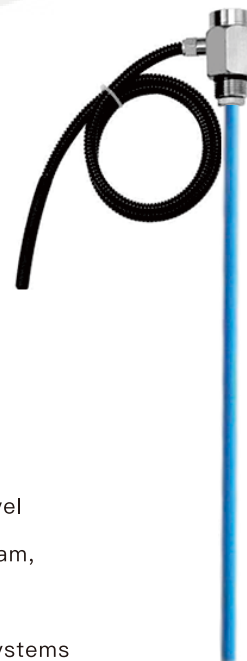
FEATURES ////

■ Automatic adaptation, automatic calibration, long-term stable output of real liquid level

■ Super anti-fouling ability such as anti-hanging material, anti-condensation, anti-steam, anti-air bubbles, etc.

■ A variety of signal outputs are available, which is convenient to connect to different systems

■ High stability, not affected by the temperature, specific gravity, and other factors of the measured liquid pressure

■ High protection, good product sealing performance, Ip68

■ Self-protection function, complete over-current, over-voltage, and power source polarity protection measures
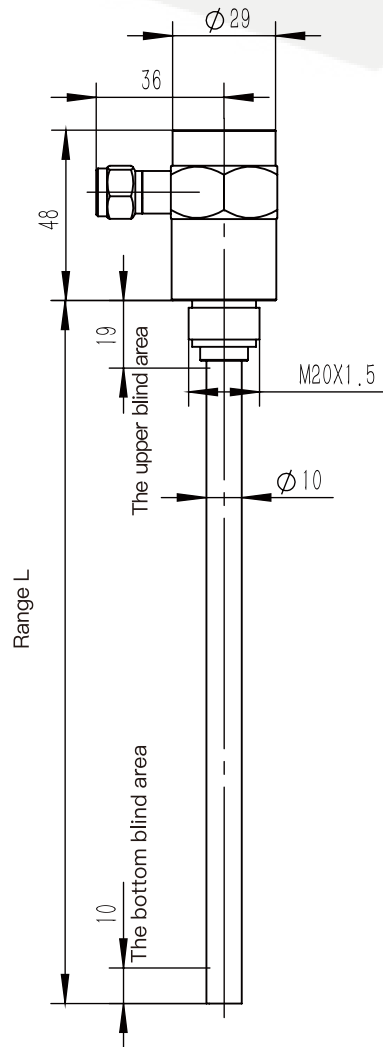
APPLICATIONS ////

■ Sewage treatment such as septic tanks, fecal pumps, etc.

SPECIFICATION ////

Item	Parameter
Operating Voltage	DC 12V / DC 24V
Working current	5-10mA
Pressure range	4 MPa
Range	100mm～2000mm
Lead length	1000 mm
Probe diameter	Φ12mm
Operating temperature	-20℃～80℃
Storage temperature	-40℃～85℃
Probe temperature	-50～150℃
Fixed	Thread installation M20×1.5/flange installation
Explosion-proof grade	Ex ia II C T6 Ga
Accuracy	0.5%，1%
Digital output	RS232/RS485/CAN
Analog output	Current：4～20mA / Voltage：0～3.3V、0～5V、0～10V

Ø29

36

48

19

The upper blind area

M20X1.5

Ø10

Range L

The bottom blind area

10

Signals	Red line	Black line	Green line（Blue line)	Yellow line
4-20mA	Power positive	Powe		
0-3.3V/0-5V/0-10V	Power positive	Power negative	Signal line	
RS232	Power positive	Power negative	RS232 TXD	RS232 RXD
RS485	Power positive	Power negative	RS485-B	RS485-A

GLTV7E						
	Code	Range				
	Xm	100~1400mm(customize)				
		Code	Output			
		P1	4~20mA			
		P2	0~3.3V			
		P3	0~5V			
		P4	RS485			
		P5	RS232			
			Code	powered by		
			V1	9~36VDC		
			V2	5VDC		
				Code	Precision	
				A	0.5%	
				B	1%	
					Code	Installation method
					T1	Standard 5-hole flange installation
					T2	M20*1.5
					T3	customize
GLTV7E	XM	P3	V1	A	T1	Complete model specifications