

# Submersible Water Level Transmitter

GaMicos

## GLT501

### DESCRIPTION

GLT501 submersible water level transmitter is designed based on the principle that the static pressure of the measured liquid is proportional to the height of the liquid. It adopts the Piezoresistive Effect of diffused silicon or ceramic sensitive components, converts static pressure into electric signal, and with dedicated digital circuit, goes through the processes of signal amplifier, linearity compensation, anti-interference, and anti-surge protection, outputs the integrated products of industry standard signal.



### FEATURES

- Optional output signals;
- Fully welded, long service life;
- Anti-interference, anti-surge protection;
- 316L stainless steel isolation diaphragm, integrated design;
- Lightning protection, comply with Standard IEC61000-4-5/Level-4;

### APPLICATION

- Waterworks, chemical factory
- Sewage treatment
- Deep well, dam
- Flood protection, irrigation

### DIMENSION

Model	Output signal	
GLT501	4...20 mA	
	0...5V DC	
	0...10V DC	
	0.5...4.5VDC proportional	
	0.5...4.5VDC	
	I2C(customized)	
	RS485(customized)	

### SPECIFICATION

H <sub>2</sub> O	Range	0...1	0...3	0...5	0...10	0...20	0...50
	Overload	3	10	10	25	50	100
H <sub>2</sub> O	Range	0...10	0...20	0...50			
	Overload	30	50	100			

Output signal		Total current consumption (signal current)	Power supply	
			Standard configuration	Optional
Current ( 2-wire )	4~20mA	Max. 25mA	DC 8...30V	
Voltage ( 3-wire)	0~10V	2.5mA	DC 14...30V	
	0~5V		DC 8...30V	
	1~5V		DC 8...30V	
	0.5~4.5V		DC 8...30V	
Proportional voltage(3-wire)	0.5~4.5V	2.5mA	DC 5V±10%	
Digital output	4...20mA+RS485		DC 8...30V	
	RS485		DC 8...30V	DC 3...5V
	I2C		DC 3...5V	
Accuracy Comply with Standard JJG 860、JJ G882	Range	Standard configuration		Optional
	Range≥10H2O	0.5%FS		0.25%FS;0.1%FS
	Range≥3H2O	0.5%FS		0.25%FS
	3H2O > Range≥1H2O	1%FS		0.5%FS
Long-term stability(%FS/Year)	≤0.2%FS/Year@0.5%FS			
Temperature drift	Zero temperature drift	Range < 10H2O	±0.05%FS/°C	
		Range≥10H2O	±0.03%FS/°C	±0.02%FS/°C
	Full scale drift	Range < 10H2O	±0.05%FS/°C	
		Range≥10H2O	±0.03%FS/°C	±0.02%FS/°C
Temperature range	Operating temperature		Standard	Optional
	Compensated temperature	Range≤10H2O	-20°C ~ 85°C	-40°C ~ 125°C
		Range > 10H2O	0°C ~ 50°C	-10°C ~ 80°C
	Storage temperature		0°C ~ 70°C	-10°C ~ 80°C
Response time	Range		Standard	Optional
	Boot time		100ms	10ms
	Response time		10ms	1ms
	Settling time		Range ≥10H2O	15s
			Range < 10H2O	1min
Load Resistance ( Ω )	Current (2-wire)	≤ ( Voltage-8V ) /0.02A		
	Voltage (3-wire)	>Maximum output signal/1mA		
	Proportional voltage (3-wire)	>10K		
Anti-vibration	10g ( IEC 60068-2-6, under resonance conditions )			
Impact resistance	500g ( Standard IEC 60068-2-27 · Mechanical shock )			
Service life	1 million pressure cycles			
Housing shell material		Standard	Optional	
	Diaphragm material	316L	Tantalum, C-276, TC4, Al2O3	
	Shell material	304SS	316L, Tc4	

**ORDER GUIDE**

GLT501	Plastic water inlet cap submersible water level transmitter										
	Code	<b>Probe material</b>									
	A1	304SS									
		Code	<b>Range</b>								
		1	0~1								
		3	0~3								
		5	0~5								
		10	0~10								
		20	0~20								
		50	0~50								
		Code	<b>Pressure type</b>								
		G	Gauge								
		A	Absolute								
			Code	<b>Output</b>							
			E	4-20mA							
			K	0.5-4.5V							
			F	0-5V							
			J	0-10V							
			V	IIC(Customizable)							
			H	RS485(Customizable)							
			Code	<b>Power supply</b>							
			V1	8-30VDC (2-wire)							
			V2	12-30VDC (3-wire)							
			V3	14-30VDC							
			V4	3-5VDC							
			V5	5VDC							
			Code	<b>Accuracy</b>							
			A1	0.5%FS							
			A2	0.25%FS							
			A3	0.1%FS							
			Code	<b>Wire material</b>							
			B1	PVC							
			B2	PU							
			Code	<b>Medium temperature</b>							
			T1	0℃~50℃							
			T2	0℃~85℃							
			Code	<b>Unit</b>							
			U1	H <sub>2</sub> O							
GLT501	A1	5	G	E	V1	A1	B1	T1	U1		