

## Corrosive Liquid Level Sensor XY-LS500

### Typical Feature

- With Stainless steel 304 shell and 316L diaphragm
- With 4-Digits LED Display.
- Measurement Range 0~300 Meter
- Accuracy level: 0.25% FS; 0.5%FS
- Power Supply 9~32VDC, Typical 24VDC
- Operating temperature -20°C ~ 80°C
- With precision temperature compensation
- PTFE shell and corrosion resistance cable
- High corrosion resistance for Sulfuric Acid( $H_2SO_4$ ), Hydrochloric Acid (HCl), Sodium Hydroxide (NaOH)



### Brief Introduction







XY-LS500 is a Corrosive Liquid Level Sensor, the Liquid Level Sensor is based on the principle of hydrostatics to measure the level or water depth, it has high-performance isolated sensitive components and precision temperature compensation technology to convert the static pressure into electrical signal, then converts these signals to standard electronic signal output.

They have excellent circuit design to suitable liquid level measurement, such as Anti-Surge, Over-Voltage, Over-Current and Reversed Polarity Protection; with Anti-Electromagnetic Interference function to ensure the output single stably in complex electromagnetic environment.

XY-LS500 Corrosive Liquid Level Sensor has PTFE shell and IP68 protection to against harsh service environment, at the same time we test its over load and shock resistance performance in critical test procedure for high corrosion resistance for Sulfuric Acid( $H_2SO_4$ ), Hydrochloric Acid (HCl), Sodium Hydroxide (NaOH)

It can be widely powered by 9-32VDC power supply and output 4-20mA and 0~5V, 1~5V, 0~10V(3-Wire) are optional. Accuracy  $\pm 0.25\%FS$ ;  $\pm 0.5\%FS$ . Can be used to measure liquid level for Reservoirs, river, sewage treatment, urban water supply, water tank, ocean level and others field need liquid level measurement.

### Suggested Applications

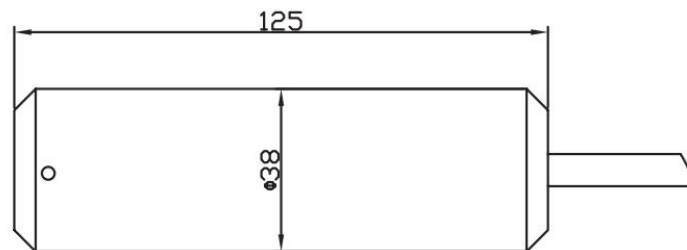
-  Sulfuric Acid( $H_2SO_4$ ),
-  Hydrochloric Acid (HCl),
-  Sodium Hydroxide (NaOH)
-  Sewage treatment
-  Smart water management system
-  Customized Applications

**More details for XY-LS500, please contact us.**

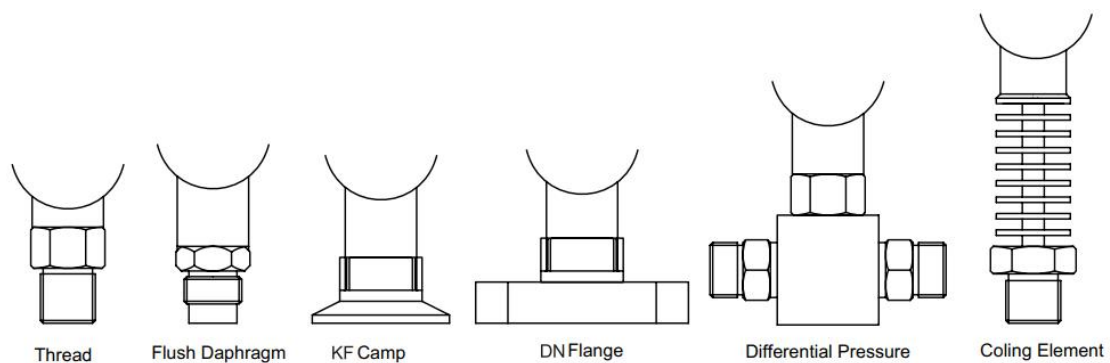
Specification

<b>Model</b>	<b>XY-LS500</b>
Range	0~1…2…5…8…10…100…300M H <sub>2</sub> O
Overload Capacity	200%
Measurement Medium	Oil or other Liquid with Compatibility of SS 304 or 316
Supporting	2088 Industrial shell
Accuracy Level	0.25% FS;0.5% FS
Long-Term Stability/Year	Typical: ±0.1% FS;
Zero Temperature drift	Typical: ±0.02%FS/°C; Maximum ±0.05%FS/°C
Sensitivity Temperature drift	Typical: ±0.02%FS/°C; Maximum ±0.05%FS/°C
Output	4-20mA; 0~5V,1~5V,0~10V(3-Wire) are optional
Transmission Distance	≥1KM(supply 24V)
Electric protection	Reverse, Excess Voltage, and Anti-Lightning Protection
Display	4 digits LED
Operating temperature	-30~85°C
Compensation	0~80°C
Power Supply	9-32 VDC (Typical 24V)
Protection Grade	IP68
Insulation Resistance	≥1000M Ω /100V
Mechanical Life	≥3Million Pressure Cycle
Load Capacity	[(Supply Power-16V)/0.02A] Ω

Dimension(mm)



Mechanical Connection(mm)



## How To Order

XY	LG	D	I	1M	1	P2	J	M3	B1	T1	L										
	Category	Type	Connection	Range	Accuracy	Power	Output	Thread	Electrical Connection	Medium Temperature	Additional										
LG	Liquid Gauge	D	Voltage Output	None	General Thread	XV	(0-X)Meter	1	0.40%	P0	Battery	R	RS485	M1	M20*1.5	B	Cable Outlet	T1	-5~40°C	LC	LCD Display
		R	RS485 Output	P	Diaphragm Seals	2	0.20%	P2	24V	A	4-20mA	M2	G1/4	C	Circular Connector	T2	-20~80°C	LE	LED Display		
		270G	Wireless GPRS	DP	Differential Pressure	3	0.10%	P3	12-28V	V2	0-5V	M3	G1/2	E	IP 68 Waterproof Cable	T3	-20~65°C	I	Explosion-Proof		
		270L	Wireless LORA	KF	Clamp	4	0.50%	P5	380V			M4	1/2NPT	CC	Customized	IT9	Customized				
		270N	Wireless NB-IoT	DN	Flange	5	0.25%	P6	12V			M5	1/4NPT								
		300	Submersible	I	Explosion-Proof Shell	9	Customized	P9	Customized			M6	Input								
LS	Liquid Sensor	200	Lightning Protection	9999	Customized					M7	ZG1/4										
		600	Corrosive																		
		600	Mounted																		

If you may not find right information in this form, Please contact us to get future details

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