EYD322-A Series Sewage dedicated liquid level transmitter

Description

This series of input type liquid level transmitters are based on the principle that the measured liquid static pressure is proportional to the height of the liquid. The product uses the piezoresistive effect of ceramic sensitive elements to convert the static pressure into an electrical signal, and then cooperates with a dedicated digital circuit to pass the signal Amplification, linear compensation, anti-interference, anti-surge protection and other signal processing, an integrated product that outputs industry standard signals.

Features

Wide measuring range: 0～10m～100mH2O;

Multiple output signals are optional;

Anti-interference and anti-surge protection;

Ceramic diaphragm, anti-corrosion;

Lightning protection, in line with IEC61000-4-5/Level-4 standards;

Applications

Chemical plant, sewage treatment plant

Various acidic liquids and gases other than hydrofluoric acid

Dams, rivers and other places with a lot of sediment

Measure range

Gauge pressure								
H2O	Range	0…1	0…3	0…5	0…10	0…20	0…50	0…100
	overload	3	10	10	25	50	100	200

Absolute pressure								
H2O	Range	0…20	0…50	0…100				
	overload	50	100	200				

Output signal

Current (2-wire system)	4…20mA
Voltage (3-wire system)	DC 0…10V ； DC 0…5V； DC 1…5V
	DC 0.5…4.5V
Proportional voltage (3-wire system)	DC 0.5…4.5V
Digital output	4…20mA+Hart
	4…20mA+RS485
	RS485 ； I2C

Load (Ω)

Current (2-wire system): ≤ (power supply voltage-8V) /0.02A

Voltage (3-wire system):> Maximum output signal / 1mA

Proportional voltage (3-wire system):> 10K

Supply voltage

Output signal	Power	
	standard	Optional
4…20mA	DC 8…30V	
DC 0…10V	DC 14…30V	
DC 0…5V	DC 8…30V	DC 3…5V
DC 1…5V	DC 8…30V	DC 3…5V
DC 0.5…4.5V	DC 8…30V	DC 3…5V
DC 0.5…4.5V(Proportional voltage)	DC 5V±10%	
4…20mA+Hart	DC 12…30V	
4…20mA+RS485	DC 8…30V	
RS485	DC 8…30V	DC 3…5V
I2C	DC 3…5V	

Total current consumption

Current (2-wire system): signal current, maximum 25mA

Voltage (3-wire system): 2.5mA

Proportional voltage (3-wire system): 2.5mA

Accuracy

Room temperature accuracy	standard	Optional
Complies with JJG 860, JJ G882 standards		
Range ≧ 10H2O	0.1%FS	0.25%FS;0.1%FS
Range ≧ 3H2O	0.1%FS	0.25%FS
Range ≧ 1H2O	0.1%FS	0.5% FS

Temperature range

		standard	Optional
Operating temperature		-20℃～85℃	-40℃～125℃
Compensation temperature	10H2O≧Range	0℃～50℃	
	10H2O≤Range	0℃～70℃	-10℃～80℃
storage temperature		-40℃～125℃	

Temperature drift

		standard	Optional
Zero temperature drift	1H2O≧Range	±0.05%FS/℃	±0.02%FS/℃
	10H2O≤Range	±0.03%FS/℃	±0.02%FS/℃
Full-scale drift	1H2O≧Range	±0.05%FS/℃	±0.02%FS/℃
	10H2O≤Range	±0.03%FS/℃	±0.02%FS/℃

Response time

	Range	standard	Optional
boot time		100ms	10ms
Response time		10ms	1ms
stable schedule	≧10H2O	15s	
	≤10H2O	1min	

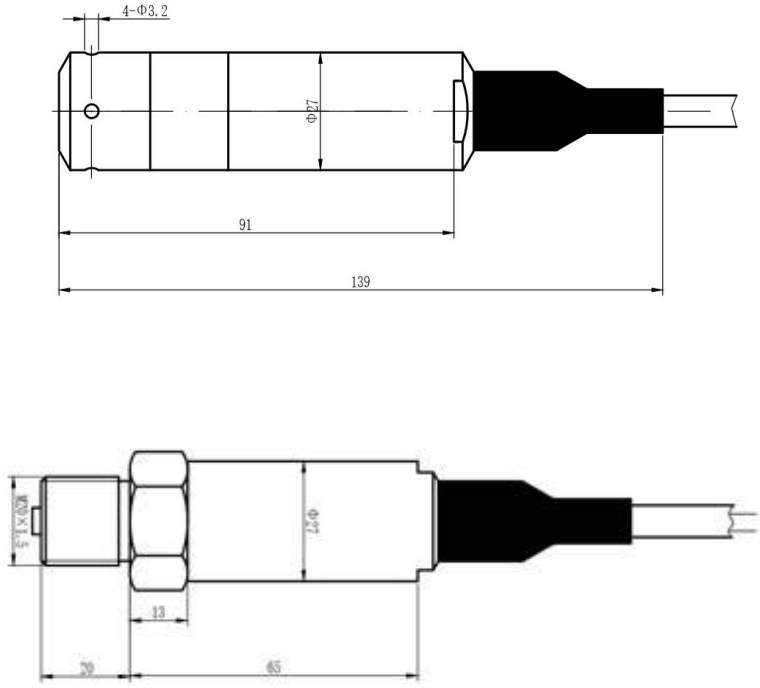
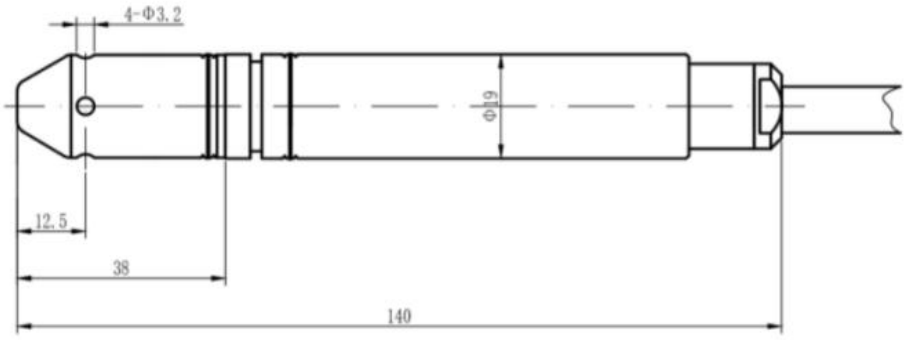
Anti-vibration
10g (IEC 60068-2-6 standard, under resonance conditions)

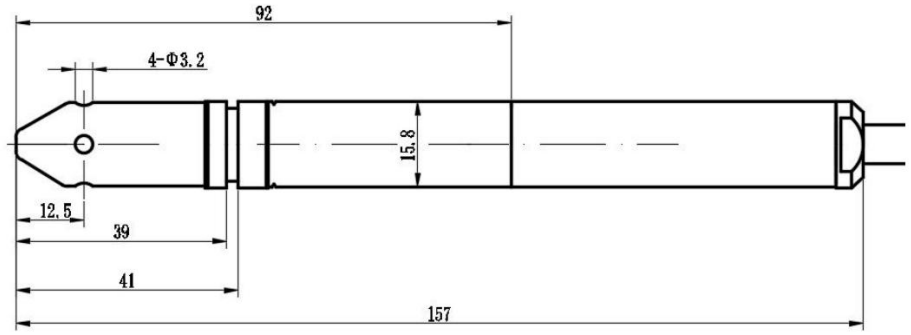
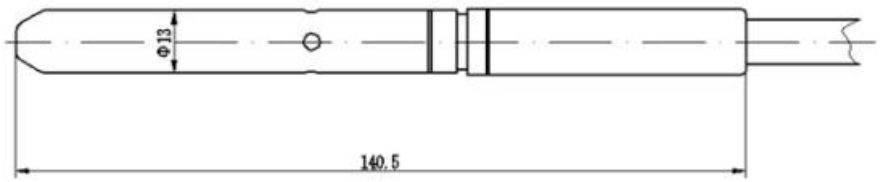
Impact resistance
500g (IEC 60068-2-27 standard, mechanical shock)

Service life

1 million pressure cycles

Outline drawing

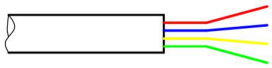
Model	sensor	
EYD322-A	27mm dial	
EYD322-A1	19mm dial	

EYD322-A2	16mm dial	
EYD322-A3	13mm dial	

Material

	standard	Optional	
Diaphragm material	1.AL2O3		
Shell material	1.304SS	2. 316L other oem	

Electrical connection

		2 wire	3 wire	4 wire
	V+	red	red	red
	V-	green	green	green
	S+（RS485A）		Yellow	Yellow

	（RS485B）			blue
Cable material	standard	Optional		
	1.PUR	2.PE 3.PTFE 4.PVC		

Ordering Information

Model / measurement range / output signal / power supply / accuracy / temperature range / cable material / cable length / other