

## Description

The anti-corrosion liquid level transmitter is specially designed for strong corrosion level measurement. The product adopts imported ceramic piezoresistive or capacitive sensors as sensitive components. The shell material uses anti-corrosion and strong PTFE or PVDF materials. All-round linear error and temperature error compensation make pressure and liquid level measurement products with extremely strong corrosion . Resistance.

## Features

Various output signals are optional;  
Wide measurement range: 0 ~ 1 ~ 100mH<sub>2</sub>O  
Anti-interference and anti-surge protection;  
PTFE shell, anti-corrosion

## Applications

Chemical plant, sewage treatment plant  
Various acidic liquids and gases other than hydrofluoric acid  
High temperature medium

## 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 ( $\Omega$ )

Current (2-wire system):  $\leq (\text{power supply voltage}-8V) / 0.02A$

Voltage (3-wire system):  $> \text{Maximum output signal} / 1mA$

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 $\pm$ 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 $\cong$ 10H2O	0.5%FS	0.25%FS;0.1%FS
Range $\cong$ 3H2O	0.5%FS	0.25%FS
Range $\cong$ 1H2O	1%FS	0.5% FS

### Temperature range

		standard	Optional
Operating temperature		-20°C~85°C	-40°C~125°C
Compensation temperature	10H2O $\cong$ Range	0°C~50°C	
	10H2O $\leq$ Range	0°C~70°C	-10°C~80°C
storage temperature		-40°C~125°C	

### Temperature drift

		standard	Optional
Zero temperature drift	1H2O $\cong$ Range	$\pm 0.05\%$ FS/°C	$\pm 0.02\%$ FS/°C
	10H2O $\leq$ Range	$\pm 0.03\%$ FS/°C	$\pm 0.02\%$ FS/°C
Full-scale drift	1H2O $\cong$ Range	$\pm 0.05\%$ FS/°C	$\pm 0.02\%$ FS/°C
	10H2O $\leq$ Range	$\pm 0.03\%$ FS/°C	$\pm 0.02\%$ FS/°C

### Response time

	Range	standard	Optional
boot time		100ms	10ms
Response time		10ms	1ms
stable schedule	$\cong$ 10H2O	15s	
	$\leq$ 10H2O	1min	

### Anti-vibration

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

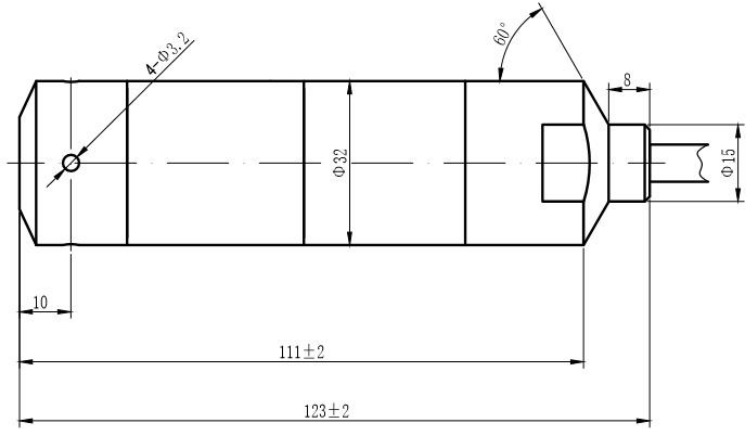
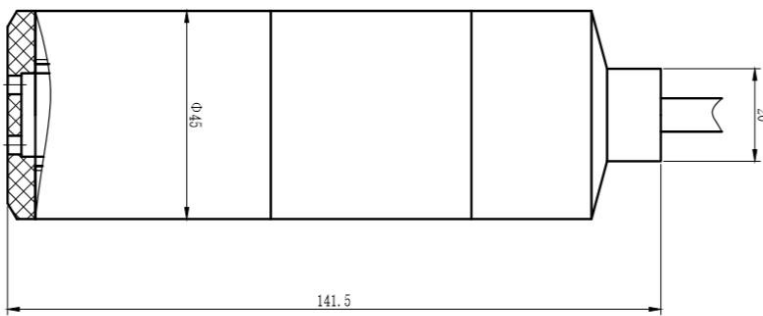
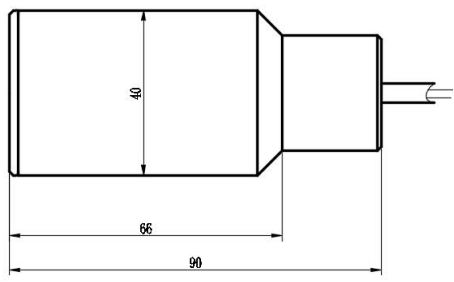
### Impact resistance

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

### Service life

1 million pressure cycles


### Outline drawing

Model	sensor	
EYD32-E-1	Ceramic piezoresistive	 <p>Technical drawing of the EYD32-E-1 sensor. It is a cylindrical component with a diameter of 32. The main body length is 111 ± 2, and the total length including the mounting flange is 123 ± 2. The mounting flange has a diameter of 15 and a thickness of 8. A chamfer with a 60-degree angle is shown at the end of the main body. A small hole with a diameter of 3.2 is located on the side of the main body, 10 units from the left end.</p>
EYD32-E-2	Ceramic capacitors	 <p>Technical drawing of the EYD32-E-2 sensor. It is a cylindrical component with a diameter of 45. The total length is 141.5. The mounting flange at the right end has a diameter of 20.</p>
EYD32-E-3	Stainless steel housing	 <p>Technical drawing of the EYD32-E-3 sensor. It is a cylindrical component with a diameter of 40. The main body length is 66, and the total length including the mounting flange is 90.</p>

### Shell material

	standard	Optional
Diaphragm material	1.Ceramic	2.99.9%; 3.99.6%
Shell material	1.PTFE	2.PVDF 3.316L

## 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