



Special characteristics

- High-performance diffused silicon pressure sensors, featuring good stability and high accuracy
- Probe-type measurement method, making installation simple and convenient
- Multiple protection structure designs for enhanced safety

Features

- High accuracy: 0.5% level, long-term stability $\leq \pm 0.2\%FS/\text{year}$, response time $< 100\text{ms}$
- Wide measurement range: 0-1m to 15mH₂O for liquid level
- Multiple output & power options: Supports (4-20)mA/(0-5)V/(0-10)V analog output, RS485 communication;

Measuring principle

The submersible level transmitter works on the principle that a liquid's static pressure is proportional to its height. It uses a diffused silicon sensor's piezoresistive effect to convert static pressure to an electrical signal



Recorder



Flow



Temp



Analyzer



Level



Pressure

FK-PX261-E submersible level transmitter: hydrostatic pressure-proportional diffused silicon sensing, 0.5% accuracy, $\leq \pm 0.2\%FS/\text{year}$ stability, $< 100\text{ms}$ response, IP68/IP67 protection. for industrial use.

Preferred areas of use are



Applied in petroleum, chemical, power plant, urban water supply, and hydrographic exploration for liquid level measurement/control.

Material and test



Parameters

Pressure Type	Gauge pressure
Measurement Variable	Liquid level
Measurement Range	0-1m...15mH ₂ O
Transmitter Output	(4-20)mA/(0-5)V/(0-10)V
Communication Output	RS485
Supply Power	Lead type: (8-30)VDC; 2088 housing type: (8-36)VDC
Power Consumption	Lead type: <0.6W/<0.05W/<0.072W; 2088 housing type: <0.2W
Electrical Interface	M20X1.5 cable gland
Accuracy	0.5% level
Long-term Stability	≤±0.2%FS/year
Response Time	<100ms
Temperature Drift	Zero output: >10m range ±0.01%FS/°C, 3m-10m ±0.02%FS/°C, <3m ±0.05%FS/°C; Full-scale output: ±0.02%FS/°C
Overload Pressure	150%FS
Compensation Temperature	(-20-80)°C
Insulation Resistance	>0.5MΩ
Insulation Strength	>250V, 0.5MΩ
Load Resistance	Current type: <(U-12)/0.02Ω; Voltage type: >2kΩ (U=supply voltage)
Medium Temperature	(0-70)°C
Ambient Temperature	(-30-80)°C
Storage Temperature	(-40-150)°C
Protection Level	Sensor: IP68; 2088 housing wiring part: IP67

■ Dimension

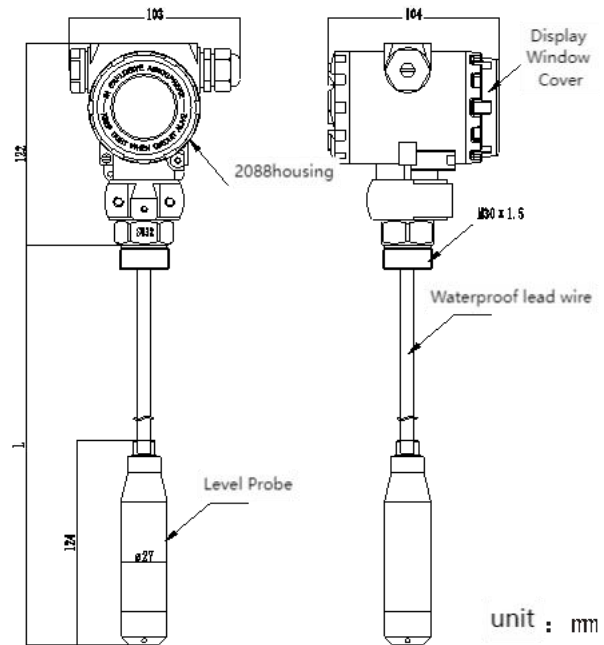
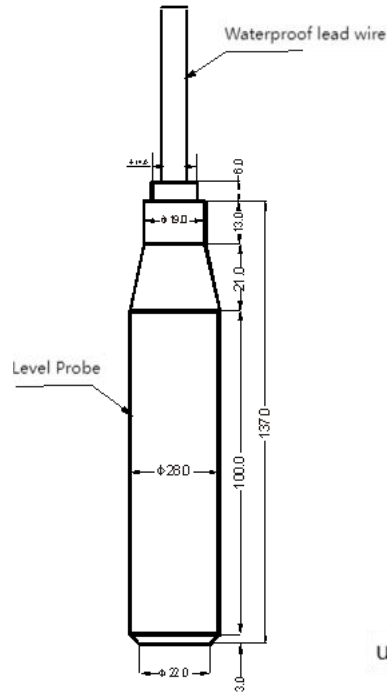


Figure 1 Dimensions of Direct Lead-Type Submersible Level Product

Figure 2 Dimensions of the 2088 Enclosed Submersible Level Product

■ Ordering Code

FK-P261-E-05-K-A1-M3-1-05-N9-00													Description
P261-E	-	-	-	-	-	-	-	-	-	-	-	-	Submersible Level Transmitter
Measurement Range	01												1m
	02												2m
	03												3m
	05												5m
	07												7m
	10												10m
	15												15m
	20												20m
	25												25m
	30												30m
	40												40m
	50												50m
	80												80m
	1H												100m
	XX												Other
Accuracy		K											Level 0.5
Output and Power Supply			A1										Two-Wire System 4-20mA
			V1										0-5V, 24VDC
			V2										0-10V, 24VDC
			R2										RS485, 24VDC
			R1										RS485, 12VDC
			XX										Other
Diaphragm Material			M3										316LSS
Probe Material and Level of Protection							1						304SS,IP68
Cable Length								05					5m
								10					10m
								15					15m
								20					20m
								25					25m
								50					50m
								60					60m
								80					80m
								1H					100m
								XX					Other
Cable Sheath Material									N9				Polyvinyl Chloride(PVC)
Addition										00			
										EN			Filter screen