



Principle structure

The static pressure type liquid level transmitter uses a high-performance diffused silicon piezoresistive pressure sensor as the measuring element to accurately measure the static pressure of the liquid that is proportional to the liquid level depth. Through the signal conditioning circuit, it is converted into a standard (current or voltage) signal output, establishing a linear correspondence between the output signal and the liquid depth, and achieving the measurement of the liquid depth. The product features high precision and small size.

Product characteristics

- Support arbitrary setting of liquid level alarm
- Probe drop type measurement, easy to install
- Multi-protection structure design, high protection ability
- Various styles, suitable for various industrial occasions
- Selection of anti-corrosion stainless steel material, suitable for a variety of occasions

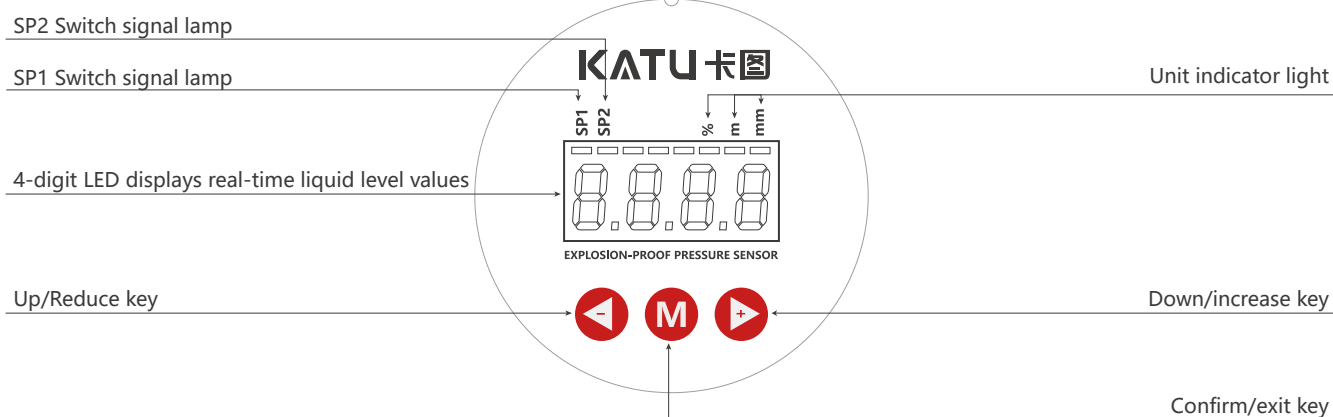
Product application

It is suitable for liquid level measurement and control in petroleum, chemical industry, power plant, urban water supply and hydrologic exploration.

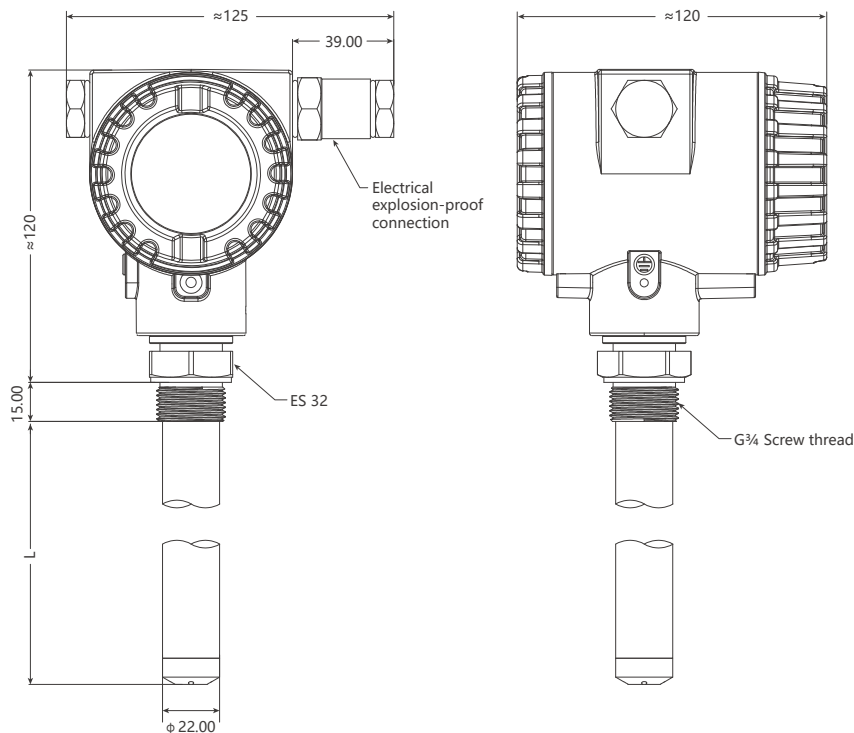
Technical parameter

◇ Measuring range: See the selection table	◇ Impact: 100g (11ms)
◇ Power supply: 24VDC, 12VDC	◇ Comprehensive accuracy: 0.5 grade
◇ Output signal: analog/communication/switch	◇ Long-term stability: $\pm 0.2\%FS/\text{year}$
◇ Load: analog signal $4-20mA \leq 500\Omega$; PNP/NPN $\leq 100mA$	◇ Response time: 0.1~1.0S
◇ Compensation temperature: $-10 \sim 70^{\circ}C$	◇ Insulation: $100M\Omega/250VDC$
◇ Operating temperature: $-40 \sim 80^{\circ}C$	◇ Material: junction box low copper aluminum alloy;
◇ Storage temperature: $-40 \sim 65^{\circ}C$	Liquid level probe all stainless steel cable material polyurethane wire
◇ Zero temperature drift: $\pm 1.0\%FS$	◇ Media compatibility: Various media compatible with 304 stainless steel,
◇ Sensitivity temperature drift: $\pm 1.0\%FS$	Special media can be customized materials
◇ Overload pressure: 150%FS	◇ Protection grade: IP65
◇ Mechanical vibration: 20g (20-5000HZ)	

Panel diagram



Size drawing (mm)



Wiring diagram

Binding post				
 1	 2	 3	 4	 5
12-36VDC	GND	OUT1	OUT2	OUT3

Two switches + one analog					
stitch	Instructions	stitch	Instructions	stitch	Instructions
1	power supply (+)	2	power supply (-)	5 (OUT3)	4-20mA (factory default) 1-5V 0-10V
3 (OUT1)	SP1 switch PNP (factory default) SP1 switch NPN	4 (OUT2)	SP2 switch PNP (factory default) SP2 switch NPN		

Selection list

LM800P-	A3	G1M	L100	G	E	Detailed description
LM800P-						LM800P Static pressure level transmitter
	A3					Output signal: Two-channel switch output + analog output (mA/V)
		G1M				Process connection: Installation thread: G1 external thread
		G3/4M				Process connection: Installation thread: G3/4 external thread
		M27M				Process connection: Installation thread: M27*2 external thread
		F25				Process connection: Flange connection: DN25
		F50				Process connection: Flange connection: DN50
		F80				Process connection: Flange connection: DN80
			L100			Measurement range: 100mm
			L150			Measurement range: 150mm
			L200			Measurement range: 200mm
			L250			Measurement range: 250mm
			L300			Measurement range: 300mm
			L350			Measurement range: 350mm
			L400			Measurement range: 400mm
			L450			Measurement range: 450mm
			L500			Measurement range: 500mm
			L550			Measurement range: 550mm
			L600			Measurement range: 600mm
			L650			Measurement range: 650mm
			L700			Measurement range: 700mm
			L750			Measurement range: 750mm
			L800			Measurement range: 800mm
			L850			Measurement range: 850mm
			L900			Measurement range: 900mm
			L950			Measurement range: 950mm
			L1000			Measurement range: 1000mm
				G		Electrical connection: Electrical head (PG13.5) (non-explosion-proof type)
				M20K		Electrical connection: M20*1.5 internal thread
				G1/2K		Electrical connection: G1/2 internal thread
				N1/2K		Electrical connection: NPT1/2 internal thread
					E	Explosion-proof
					S	Non-explosion-proof