

LV801 Level Transmitter

For Aggressive Media Applications



Features

- Measuring ranges from 0.5mH₂O to 200mH₂O
- Accuracy: ±0.25%FSO or 0.5%FSO
- Calibrated and temperature compensated
- PVC housing construction
- Ceramic capacitance pressure sensor design
- Variety of Pressure & Electrical connections
- Output 4~20mA, 0~10V, 0.5~4.5V, RS485 and others

Applications

- Level measurement
- sewage treatment
- Chemical industry
- level measurement in open tanks with aggressive liquids as acids and lye

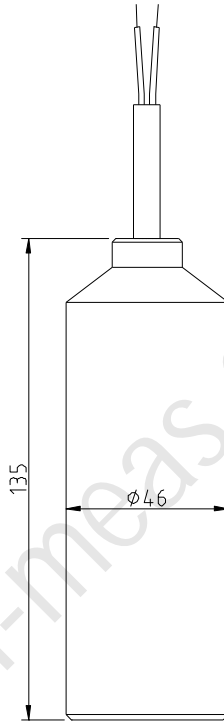
Performance Specifications

Parameter	Value				Notes
Pressure Range	0-0.5,...,200 mH ₂ O				
Pressure Type	gauge(G), absolute (A)				
Overpressure	150 %FS				
Accuracy	±0.25 %FS(Typ.)	±0.5 %FS(Max.)			2
Temp Coeff - Zero	±0.02 %FS/°C(Typ.)	±0.03 %FS/°C(Max.)			@25°C
Temp Coeff - Span	±0.02 %FS/°C(Typ.)	±0.03 %FS/°C(Max.)			@25°C
Long-Term Stability	±0.2 %FS/year(Typ.)	±0.3 %FS/year(Max.)			
Output Signal	4...20mA	RS485	1...5Vdc	0...10Vdc	0.5...4.5Vdc
Power Supply(Vs)	12...36Vdc	12...36Vdc	12...36Vdc	15...36Vdc	5Vdc
Load Resistance(RL)	For current output: $RL \leq (Vs-15)/0.02 \Omega$ For voltage output: $RL \geq 10 k\Omega$				
Response time	≤2 ms				
Vibration	10g(20-2000Hz)				
Shock	100g(10ms)				
Insulation Resistance	100 MΩ/50 Vdc				
Compensated Temperature Range	-10...+70 °C				
Operating Temperature Range	-20...+70°C				
Storage Temperature Range	-40...+125 °C				
Housing	PVC				
Diaphragm	ceramic (Al ₂ O ₃)				
Seal Ring	Viton				
Protection	IP68				
Net Weight	~415 g				

Notes

1. All values measured at 25°C(77°F)
2. Including non-linearity, hysteresis and repeatability.
3. The listed specifications and dimensions are subject to change without prior notice.

Dimensions (in mm)



Ordering Information

Model	Range	Range	Output Signal	Accuracy	Cable	Cable Length	Note
LV801	0/0.5mHzO	(G) gauge	(42) 4...20 mA	(02) 0.25 %FS	(P): PUR	(X)m: X= cable length	
	0/1mHzO	(A) absolute	(05) 0...5 Vdc	(05) 0.5 %FS	(PF) PTEF		
	0/2mHzO		(15) 1...5Vdc				
	0/3mHzO		(10) 0...10 Vdc				
	0/4mHzO		(45) 0.5...4.5 Vdc				
	...						
	0/200mHzO Customized range						

Ordering Code

LV801	0/4mHzO	G	42	02	PF	5m	
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LV801-0/4mHzO-G-42-02-PF-5m