This data sheet contains product specification, properties are not guaranteed. Subject to change without notice.

Model LV800 For Level Measurement



Features

- Measuring ranges from 1mH₂O to 200mH₂O
- Accuracy: ±0.25%FSO or ±0.5%FSO
- Calibrated and temperature compensated
- Stainless steel construction
- Piezoresistive pressure sensor design
- Variety of Pressure & Electrical connections
- Output 4...20mA,0...10V,0...5V and others

Product Overview

LV800 is made from high-quality silicon piezoresistive sensor. The piezoresistive sensor is packaged in stainless steel housing. The LV800 is precision engineered to fit most level measurement. The water-proof cable connects with housing sealed, with vented tube putting in, the transmitter could be used in the water or liquid in a long time. Integrated construction and standard output signal could provide easy operation and good automatic control.

Standard Pressure Ranges

Nominal pressure	gauge	
01mH ₂ O	•	
$02mH_2O$	•	
05mH ₂ O		
010mH2O	•	
015mH ₂ O	•	
020mH2O	•	
050mH ₂ O	•	
080mH ₂ O	•	
0100mH ₂ O	•	
0150mH ₂ O	•	
0200mH2O	•	

Other pressure ranges available. Please consult the factory.

Applications

- Level measurement
- Hydraulic monitoring in rivers and sea
- Muddy liquid level measurement
- Water treatment
- Water diversion project

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Performance Specifications

Parameter	Value			Units	Notes	
General						
Pressure Range	0-1,,200			mH ₂ O		
Overpressure	1.5xFS			mH ₂ O		
Environmental						
Operating Temperature Range	-20 to +70			°C	-4°F to 15	3°F
Compensated Temperature Range	0 to +70			°C	32°F to 15	8°F
Storage Temperature Range	-40 to +125			°C	-40°F to 2	57°F
Vibration	10			g	20 to 2000	Hz
Shock	100			g	10ms	
Cycles	10x10 ⁶			cycles		
Electrical @25°C(77°F)						
Output Signal	420mA	05Vdc	15Vdc	010Vdc	0.54.5	Vdc(ratiometric)
Power Supply(Vs)	1236Vdc	1236Vdc	1236Vdc	1536Vdc	5Vdc	
Load Resistance	<(Vs-12)/0.02A	(For current	output), >10k	Ω (For voltage	output)	
Insulation Resistance	100MΩ@50Vdc	;				
Physical Specifications						
Media Compatibility	All media compa	atible with 31	I 6L stainless s	teel		
Housing	304 stainless steel					
Diaphragm	316L stainless steel					
Seal Ring	Viton or NBR	Viton or NBR				
Oil Filling	Silicone oil					
Protection	IP68					
Net Weight	Approx.225g					
Parameter	Minimum	Typical	Maxim	um Unit	S	Notes
Performance					70	
Accuracy	0.1	0.25	0.5	%FS	0	1,2
Temp Coeff - Zero		±0.75	±1.5	%FS	0	3
Temp Coeff - Span		±0.75	±1.5	%FS0	0	3
Long-Term Stability		±0.2	±0.3	%FS0	O/year	1

Notes

- 1. All values measured at 25°C(77°F)
- 2. Including non-linearity, hysteresis and repeatability.
- 3. 0° C to 70° C(32°F to 158°F) with reference to 25°C(77°F).

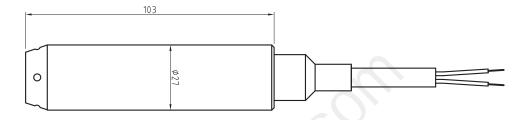
The listed specifications and dimensions are subject to change without prior notice.

Connection Diagrams

Cable outlet			
		2-wire(current)	3-wire(voltage)
,	Supply+	red	red
	Signal+	yellow	yellow
	Gnd	-	black

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Dimensions (in mm)



Ordering Information

Option1:	Model					
LV800	Level Tra	ansmitter				
	Option	2: Pressu	ire Rang	ges		
	0001	1mH ₂ 0			0100 100mH ₂ 0	
	0002	2mH ₂ 0			0150 150mH ₂ 0	
	0005	5mH ₂ 0			0200 200mH ₂ 0	
	0010	10mH ₂ 0			Cxxx Customized range	
	0020	20mH₂0				
	0050	50mH ₂ 0				
	0800					
				length		
		[x]m		e length		
				ո4։ Outpւ	•	
			42	420m		
			05	05Vd		
			15	15Vd	С	
			10	010V		
			45		5(ratiometric)	
					5: Accuracy	
				02	0.25%FSO	
				05	0.5%FSO	
LV800	0010	15	42	02	Examples of Ordering Code: LV800-0010-15-42-02	