Level Transmitter



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,RS485 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
01mH2O	٠
02mH2O	٠
05mH2O	٠
$010mH_2O$	٠
015mH2O	٠
020mH2O	٠
050mH2O	٠
080mH2O	٠
0100mH20	٠
0150mH2O	٠
0200mH2O	٠

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

Performance Specifications

Parameter	Value			Units	Notes	
General						
Pressure Range	0-1,,200	0-1,,200				
Overpressure	1.5xFS			mH2O		
Environmental						
Operating Temperature Range	-20 to +70			°C	-4°F to 15	8°F
Compensated Temperature Range	0 to +60			°C	32°F to 158°F	
Storage Temperature Range	-40 to +125	-40 to +125			-40°F to 257°F	
Vibration	10			g	20 to 2000Hz	
Shock	100			g	10ms	
Cycles	10x10 ⁶			cycles		
Electrical @25°C(77°F)						
Output Signal	420mA	05Vdc	010Vdc	RS485	0.54.	5Vdc(ratiometric)
Power Supply(Vs)	1236Vdc	1236Vdc 1236Vdc 1536Vdc			.36Vdc 5Vdc	
Load Resistance	<(Vs-12)/0.02A (For current output), >10k Ω (For voltage output)					
Insulation Resistance	100MΩ@50V	dc				
Physical Specifications						
Media Compatibility	All media compatible with 316L stainless steel					
Housing	304 stainless steel					
Diaphragm	316L stainless steel					
Seal Ring	Viton or NBR					
Oil Filling	Silicone oil					
Protection	IP68					
Net Weight	Approx.225g					
Parameter	Minimum	Typical	Maxim	um Unit	s	Notes
Performance						
Accuracy	0.1	0.25	0.5	%FS	0	1,2
Temp Coeff - Zero	±0.75 ±1		±1.5	%FS	0	3
Temp Coeff - Span	±0.75 ±1.5		±1.5	%FSO		3
Long-Term Stability		±0.2	±0.3	%FS	0/year	1

Notes

1. All values measured at 25°C(77°F)

2. Including non-linearity, hysteresis and repeatability.

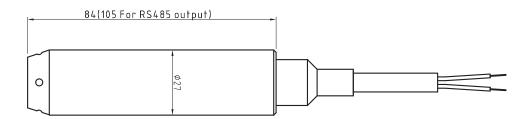
3. 0°C to 70°C(32°F to 158°F) with reference to 25°C(77°F).

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

Connection Diagrams

Cable outlet				
		2-wire(current)	3-wire(voltage)	4-wire(RS485)
	Supply+	red	red	red
	Signal+	yellow	yellow	yellow
	Gnd	-	black	
	RS485A	-	-	green
	RS485B	-	-	white

Dimensions (in mm)



Ordering Information

Option1:	Model					
LV800	Level Transmitter					
	Option2: Pressure Ranges					
	0001	1mH20			0100 100mH20	
	0002	2mH20			0150 150mH20	
	0005	5mH20			0200 200mH20	
	0010	10mH20			Cxxx Customized range	
	0020	20mH20)			
	0050	50mH20)			
	0800)			
		Option3: Cable length				
		[x]m x=cable length				
		Option4: Output Signal				
			42	420mA		
	05 15 10 45			05Vdc		
				15Vdc		
				010Vdc		
				0.54.5(ratiometric)		
			R4	RS485-modbus		
	R40			420mA+RS485-modbus		
				•	5: Accuracy	
				02	0.25%FSO	
				05	0.5%FSO	
LV800	0010	15	42	02	Examples of Ordering Code: LV800-0010-15-42-02	