Model LV810

For Level Measurement

Features

- Measuring ranges from 0.5mH_2O to 200mH_2O
- Accuracy: ±0.25%FSO or ±0.5%FSO
- Calibrated and temperature compensated
- Stainless steel construction
- Piezoresistive pressure sensor design
- LCD field display
- Variety of Pressure & Electrical connections
- Output 4...20mA,0...10V,RS485 or Hart protocol

Product Overview

Lv810 is made from high-quality silicon piezoresistive sensor. The piezoresistive sensor is packaged in stainless steel housing. The LV810 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
0...1mH_2O	●
0...2mH_2O	●
0...5mH_2O	●
0...10mH_2O	●
0...15mH_2O	●
0...20mH_2O	●
0...50mH_2O	●
0...80mH_2O	●
0...100mH_2O	●
0...150mH_2O	●
0...200mH_2O	●

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					mH_2O	
Overpressure	1.5xFS					mH_2O	
Environmental							
Operating Temperature Range	-20 to +70					°C	-4°F to 158°F
Compensated Temperature Range	0 to +70					°C	32°F to 158°F
Storage Temperature Range	-40 to +125					°C	-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	4...20mA	0...5Vdc	1...5Vdc	RS485	Hart protocol		
Power Supply(Vs)	12....36Vdc	12....36Vdc	12....36Vdc	15....36Vdc	15....36Vdc		
Load Resistance	<(Vs-12)/0.02A (For current output), >10kΩ (For voltage output)						
Insulation Resistance	100MΩ@50Vdc						
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.750g						

Parameter	Minimum	Typical	Maximum	Units	Notes
Performance					
Accuracy	0.1	0.25	0.5	%FSO	1,2
Temp Coeff - Zero		±0.75	±1.5	%FSO	3
Temp Coeff - Span		±0.75	±1.5	%FSO	3
Long-Term Stability		±0.2	±0.3	%FSO/year	1

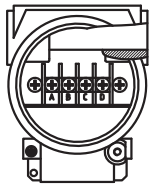
Notes

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.

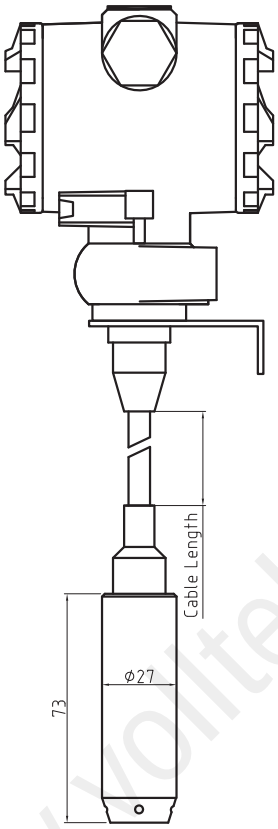
Connection Diagrams

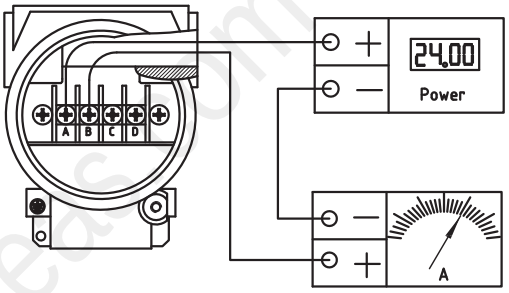
Terminal



	2-wire(current)
Supply+	A
Signal+	B
-	-
-	-

Dimensions (in mm)





Ordering Information

Option1: Model						
LV810	Level Transmitter					
	Option2: Pressure Ranges					
	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$0		Cxxx	Customized range	
	0020	20mH$_2$0				
	0050	50mH$_2$0				
	0080	80mH$_2$0				
		Option3: Cable length				
		[x]m	x=cable length			
			Option4: Output Signal			
			42	4...20mA		
			05	0...5Vdc		
			15	1...5Vdc		
			RS	RS485		
			HR	HART protocol		
				Option5: Accuracy		
				02	0.25%FSO	
				05	0.5%FSO	
				05	**Option5: Accuracy**	
					M0	without display
					M1	LCD display
					M2	LED display
LV810	0010	15	42	02	M1	Examples of Ordering Code: LV810-0010-15-42-02-M1

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