

PZL801 Submersible Level Transmitter

Introduction

The PZL801 is full sealed submersible level transmitter. The submersible transmitter, use silicone piezoresistive silicon oil-filled sensor as measurement component. According the relation between pressure, density and liquid level, the hydraulic transducers measure the liquid pressure which in direct ratio with depth of liquid, then via amplificatory circuit, the measured pressure is transferred to standard signal. Integrated construction and standard signal provide the user easy and convenient application in the local working place. The special cable connects with housing, can be immersed into the media for a long time.

PZL801 level transmitter has compact size, and good stability.

Features

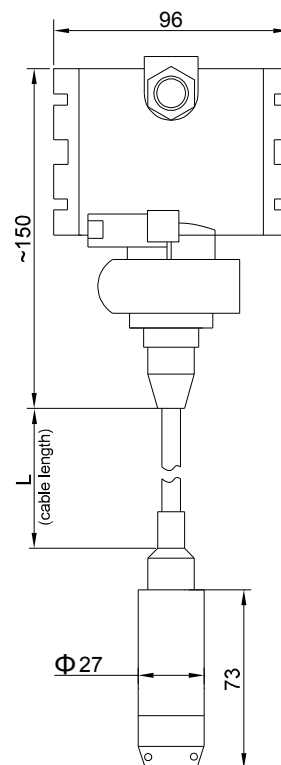
- Measuring range: 0~1 mH₂O,..., ~200 mH₂O
- Accuracy up to 0.25%fs
- Optional output signal
- Construction: integrated construction, rigid and robust
- Probe and cable protection: IP68
- Housing environment protection: IP65

Applications

- Water or liquid measure
- Chemical industry
- Generating station
- City water supply and drainage
- Hydrology



Dimensions



Notes: All dimensions are in mm.

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Specifications

Parameter	Units	Data	Notes
Pressure ranges and types	mH ₂ O	Gauge: 0~1, ~5,~10,~50,~100,~160,~200	
Overload pressure	%fs	150	[1]
Accuracy	%fs	≤ ±0.25 , ≤ ±0.5(standard)	[2]
Long-term stability	%fs/year	≤ ±0.2	
Compensated temperature range	°C	0 ~ +70	
Operating temperature range	°C	-20 ~ +85	
Storage temperature range	°C	-40 ~ +125	
Temperature coefficient of zero	%fso/°C	≤ ±0.03	
Temperature coefficient of span	%fso/°C	≤ ±0.03	
Output signal	mA	4~20 with HART (standard) , 4~20	
	Vdc	0~5, 1~5	
Power supply (U)	Vdc	12 < U < 36	
Load resistance for voltage output	kΩ	> 5	
Load resistance for current loop	Ω	≤ (U - 12V) / 0.02A	
Insulation resistance	MΩ	100 @100Vdc	
Environment protection	/	probe and cable : IP68,housing : IP65	
Electrical connection	/	connection box	
Cable	/	Φ7.3mm, shielded black PE cable with a vent tube	
Display(for 4~20mA)	/	5 digits LCD display (standard), no display	
Pressure connection	/	submersible in	
Pressure diaphragm	/	316L SS	
Housing material	/	1Cr18Ni9Ti SS, Aluminium casting	
Seal	/	O-ring	
Vibration resistance (20, ..., 2000 Hz)	g	20	
Response time	ms	≤ 1	
Filling oil	/	silicone oil	
Net weight (without cable)	gram	210 (probe head) + 1000 (housing)	

Notes:For customized requests, please consult Proza.

[1]. "fs" refers to full scale pressure or rated pressure.

[2]. Accuracy = $\sqrt{\text{non-linearity}^2 + \text{hysteresis}^2 + \text{repeatability}^2}$

Ordering Code: model-range-output-accuracy-cable length-field display-customized requests

Example of Ordering Code

- standard products: PZL801-0~10mH₂O(G)-4/20mA+HART-0.25%fs-15m-5 digits LCD

- customized products: PZL801-0~2mDiesel[850kg/m³](G)-4~20mA-0.5%fs-3m-no display

Order Note

Please pay attention that the media should be compatible with the contacted parts;please inform the density of the media (except water).

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