



PZL800 Submersible Level Transmitter

Introduction

The PZL800 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.

PZL800 level transmitter has compact size, light weight and good stability.

Features

- Measuring range: 0~1 mH₂O,..., ~200 mH₂O
- Accuracy up to 0.25%fs
- Optional output signal
- Integrated construction, unnecessary to do outer adjustment
- Environment protection: IP68

Applications

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

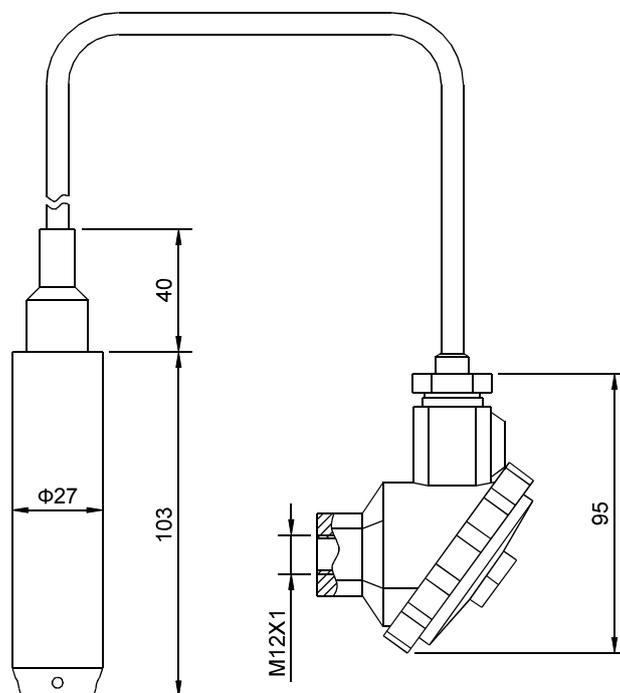
Type I



Type II



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 (standard)	
	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	/	IP68	
Electrical connection	/	by cable or connection box	
Cable	/	Φ7.3mm, 4-core shielded black cable with a vent tube	
Pressure connection	/	submersible in	
Pressure diaphragm	/	316L SS	
Housing material	/	1Cr18Ni9Ti SS	
Seal	/	O-ring	
Vibration resistance (20, ..., 2000 Hz)	g	20	
Response time	ms	≤ 1	
Filling oil	/	silicone oil	
Net weight(without cable)	gram	~240	

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-customized requests

Example of Ordering Code:

- standard products: PZL800(I)-0~10mH₂O(G)-4~20mA-0.5%fs-15m

- customized products: PZL800(I)-0~2mDiesel[850kg/m³](G)-4~20mA-0.5%fs-3m

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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