

PS581 Series

submersible level transmitters with display

Features

Compact design

Protection type IP68

Corrosion resistant stainless steel design

PVC,PUR,PE sheathed cable with inner ventilation

Aluminium Housing with LCD display



Description

PS581 series submersible transmitters are specifically designed for depth and level measurements of groundwater wastewater, and sea water. Typical applications are wells, dams, irrigation, sewage lift stations, rivers and oceanography.

The stainless steel housing will satisfy many applications. PTFE body is also ideal in brackish or sea water, or other chemical environments unsuitable for stainless steel. Relatively low water levels can be measured with the PS580 submersible level transmitter despite its 27 mm diameter. This is possible by incorporating a highly sensitive miniature silicon diaphragm with a very thin isolation membrane back filled with silicone oil.

Technical Specification

Accuracy

±0.5% FS

±0.25% FS (Option)

Body

Stainless Steel AISI316

Option : PTFE

Overpressure

Full scale ranges up to 1,6 mH₂O x2

Above 1,6 to 100 mH₂O x3

Above 100 mH₂O x2

Cable

PVC, PUR and PE

Protection Degree

IP68

Operating Temperature Range

-20° to +70° C (Optional 120 ° C)

Compensated Temp.Range

0° to + 70° C

Hysteresis, Repeatability

0,05% of FS

Electrical

2-wire, 4-20 mA, 10-36 VDC

0-5 VDC or 0-10 VDC*

*Supply should be 14 VDC min.

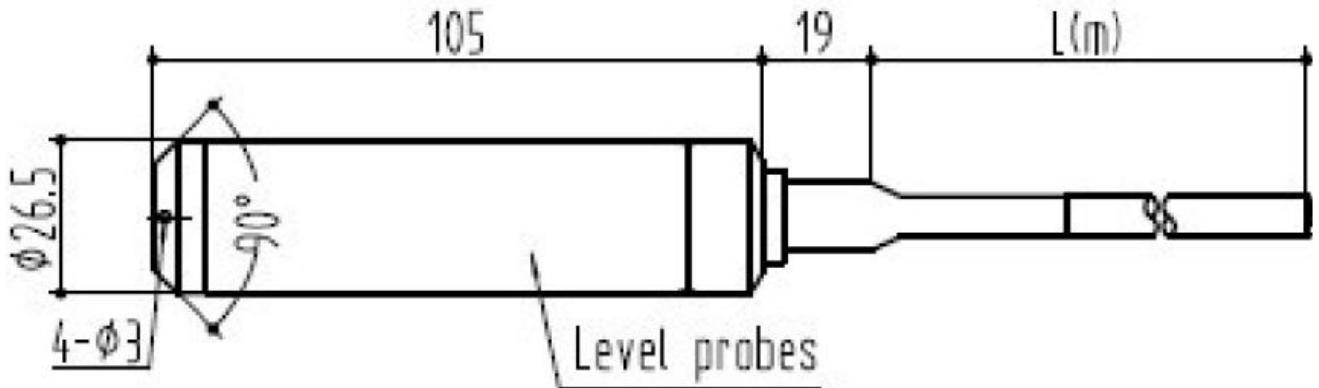
Stability

0,2% of FS/year

Wiring

4-20 mA		0-10 VDC or 0-5 V DC	
Cable Colour	Description	Cable Colour	Description
Red	Supply V+	Red	Supply V+
Blue	Output +	Blue	Supply V-
		Yellow	Output +

Dimensions



Measuring Range Table

Code	Range	Code	Range	Code	Range
001	0...1 m H ₂ O	006	0...10 m H ₂ O	011	0...100 m H ₂ O
002	0...1,6 m H ₂ O	007	0...16 m H ₂ O	012	0...160 m H ₂ O
003	0...2,5 m H ₂ O	008	0...25 m H ₂ O	013	0...200 m H ₂ O
004	0...4,0 m H ₂ O	009	0...40 m H ₂ O	XXX	Special Ranges
005	0...6,0 m H ₂ O	010	0...60 m H ₂ O		

Ordering Information

PS581 . XXX . XX . XX . XX . XXX	Cable Length	Please fill direct as metre (005 means 5 m)	
	Cable Material	P : PVC	U : PUR
		S : Silicone	E : PE
	Process Connection	XX : None	
	Measuring Type	01 : Relative	02 : Absolute
	Measuring Range (Please see "Measuring Ranges Table")		
	Output	420 : 4-20 mA	010 : 0-10VDC

