

CS-PT471 Level Transmitter

Features

- Silicon resistance sensor
- Output 4 -20 mA /0.5-4.5V
- The leads are non-polar
- Ingress protection IP 68 permanently up to 350 m water column
- Over voltage and Reverse protected
- Low cost

Applications

- Level measurement in rivers and lakes
- Deep well and groundwater monitoring
- Level measurement in vessel and storage systems
- Monitoring of sewage, settling and storm-water retention basins

Description

The model CS-PT471 Level transmitter for general purpose is the ideal solution for price sensitive industrial applications.

The model CS-PT471 offers continuous measuring ranges between 0 ... 3 m H₂O and 0 ... 50 m H₂O.

It has been designed to the current demands of the industry and has 4-20mA or 0.5-4.5V output as standard, an accuracy of 1.0%F.S and PE cable. With IP 68 ingress protection, it is suitable for measurement level up to 350 m H₂O.

At the same time, it offers PE cable.

Performance specifications

Test condition, Temperature: 20±2°C, power supply 12VDC/5VDC, relative humidity 45%~75%, ambient atmospheric pressure: 86KPa~106KPa

Standard range (H ₂ O)	0~3...50m
Pressure type (G: Gage, A:Absolute)	G/A
Proof	2X
Accuracy at 25°C	±1.0%F.S(include linearity, hysteresis, repeatability, and calibration error)
Long-term stability.	±0.5%FS/year
Response Time	≤10ms
Operating Temperature	-20°C~85°C
Compensated Temperature	-10°C~70°C

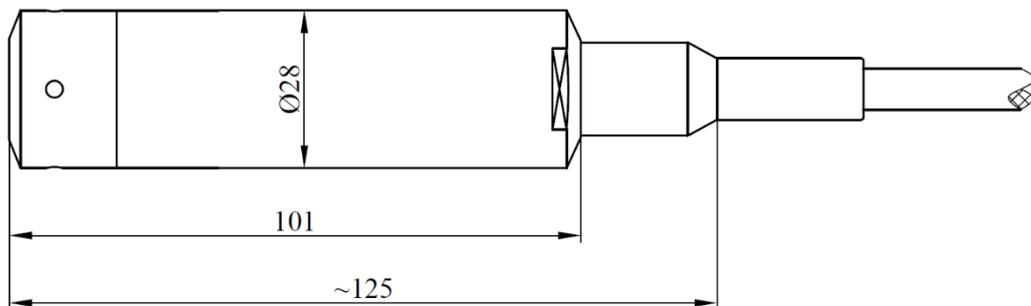
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Storage Temperature	-40℃ ~ 100℃	
Output Signal	4~20mADC	0.5~4.5VDC
Supply Voltage	12~30 VDC	5 VDC
Max Supply Current (without Load)		≤4 mA
Output Load	$\leq (U - 12) / 0.023 \Omega$ (MAX 600Ω)	≥10KΩ
Overvoltage	32VDC	30VDC
Reverse Voltage	-30VDC	
Insulate Resistance	≥100MΩ@50VDC	
IP Rating	IP68	
Random Vibration	10g, 5~2000Hz	
Shock	X/Y/Z, 20g, half-sine 11ms s	
Drop (any Axis)	1m	
Housing material	304/316L stain steel	
Seal material	NBR O-Ring default (-20 ℃~+100℃), FKM optional (-15 ℃~+135℃) or others	
Cable material	PE default, PUR and stiffener cable are optional	

Structure and Dimension (mm)



Electrical connection

	Line color	Line define
		Two line
	Red	Supply power (U+)
	Green / Blue	Current output (Io)
	Yellow	Shield (PE)

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Notes

1. Only use the pressure sensor to test the medium which have no corrosion to its housing and seal material.
2. Can not use sharp tools to clean the pressure hole when the hole of the pressure sensor is blocked. The pressure sensor shall be removed from system and put the pressure hole part into the fluid which can dissolve the blocking substance.
3. In order to protect the transmitter used at areas with many lightning, suggest adding a lightning protection device and reliably connecting the shield line to EARTH.
4. For other need contact factory.