

DATASHEET

Level

Single Electrode Capacitance Level Sensor For high temp./high pressure/cryogenic Level Measure

Model PWL-CX

Applications

- High-pressure equipment
- High-pressure vessels
- High-temperature containers
- Cryogenic tanks
- Liquid gases: Liquid CO2, liquid nitrogen, LNG
- Sealed pressure tanks and vessels

Features

- Support local ZERO and SPAN calibration
- Easy to install no need any settings
- No elastic or movable parts, impact of resistance
- Customize max 250°C high Temp liquid
- No effect from different medias, temps
- Anti-adhesion, anti-hanging, anti-foam



Level Sensor PWL-CX

Description

PWL-CX series single-electrode capacitive level sensor is suitable for continuous measurement of the level of conductive media in various high-pressure equipment and containers during industrial production processes. It transmits a 4-20mA DC standard signal. The probe is made of imported PTFE material and can operate continuously at 250 °C. An automatic sealing structure prevents media leakage.

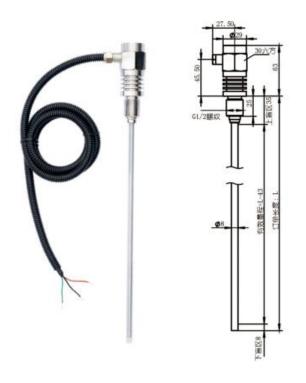
Except being used in high temperature and high pressure containers/vessels, it is a special level sensor for cryogenic applications, basing on radio frequency capacitance measurement technology and is used for precise measurement and control of liquid levels in specific applications.

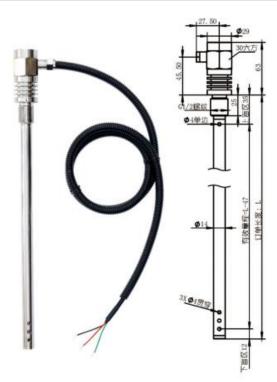


Specifications

Model	PWL-CX		
Probe Diameter	Φ8, Φ12, Φ14,Φ16, Φ19		
Order Length	50-10000mm		
Working Pressure	≤0.6MPa, ≤32MPa (in normal temperature)		
Accuracy	±1.0%FS(Typical), ±2.5%FS for Cryogenic		
Environmental Temp.	-40°C~+85°C		
Temp. Resistance of Electrode	-60°C~+120°C,-200°C~+200°C, -200°C~+250°C		
Electrical Connection	Fixed cable by stainless steel cap or industrial wire interface		
IP Rating	IP67, IP65		
Cable Length	1000mm or by customized		
Signal Output &	4-20mA 2 wires RS485 Modbus		
Power Supply	18-28VDC 12-28VDC		
Pressure Connection	M20*1.5, M27*2		
	Flange connection by customization		
Long-term Stability (%FS/year)	≤0.1		
Temp Drift (%FS/℃)	≤0.02		
Probe Material	SUS304, PTFE covered SUS304		
Explosion Proof	Exia II CT6 Ga		

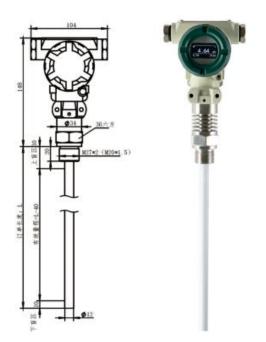
Dimensions and Drawings

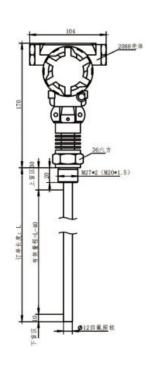




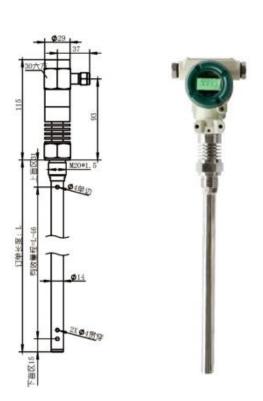


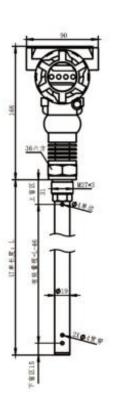












Unit is mm. This is typical dimensions, will vary according to length and requirements.



Electrical Connection

Wire Color	Current 2wires	RS485
Red	Vcc+	Vcc+
Black	Vcc-/Signal+	Vcc-
Yellow	/	RS485 A
Green(Blue)	/	RS485 B

You may also Need

Reference Picture	Description	Product
50.0	To connect with pressure transmitter and to have a site indicator of the measured value, have high&low value alarms, record and control.	Display/indicator/controller
	Cast aluminum material with IP67 protection level for submersible pressure transmitter. Moisture-proof sealing design, insulation protection against electric shock. To be placed in dry environment or in a cabinet.	Terminal box 0010

^{**}Tell us medium / which application / measuring range / working temperature / signal output / what you wanna to realize, our sales engineer will recommend suitable model for you.