
Product Description

CS-PT480 submersible level transmitter is a high-accuracy, compact structure, long terms stability product with high resistance to abrasion, oil, acid, and alkali cables. CS-PT480 is widely used in potable water supply, and reservoirs/lakes/river water monitoring.

The CS-PT480 complies with intrinsically safe and CE、UKCA certifications.



Feature

- ★ $\pm 0.25, \pm 0.5\%$ F.S
- ★ Diffused silicon pressure transmitter
- ★ Several special structures for different usage
- ★ Submersible Digit Level Transmitter
- ★ Multiply measurement range and output
- ★ RS485 bus and MODBUS protocol
- ★ CE.Intrinsically safe type available

Application

- ★ Deepwater level measurement
- ★ Hydrological monitoring
- ★ Water tank level monitoring
- ★ Water-saving irrigation
- ★ Circulating fluid monitoring
- ★ Water extraction project

Technical Parameters

Parameter	Value		Note
Measure Range	0~1……350mH ₂ O		Customized
Overload Pressure	1.5×RP(rated pressure)		
Broken Pressure	3.0×RP(rated pressure)		
Accuracy	(±0.5%F.S, ±0.25%F.S)@25℃		
Long term stability	±0.25%F.S/year		
Operate Temperature	- 40℃~85℃		According to O-ring and cable
Compensation Temperature	-10℃~80℃		
Media Compatibility	304 stainless steel default, 316L stainless steel and Titanium optional		
Seal material	NBR O-Ring default, FKM optional		
Power Supply	12~30Vdc	3.1~4.2Vdc	
Over Voltage	32Vdc	7Vdc	
Reverse Voltage	-32Vdc	-7Vdc	
Supply Current	<10mA	<7mA	
Insulation	> 100M Ω@50V		
Electrical connector	IP68		
Pressure Port	Embedded type		Customized
Cable material	PE default, PUR and FEP optional		
Weight(excluding cable)	~250g		
Response Time	10ms		
Pressure Form	Gauge G, Absolute A		
Compliant	CE、UKCA		
EMC	EN: 61326-1		
Random Vibration	10g, 5~2000Hz		
Shock	X/Y/Z, 20g, sine 11ms		

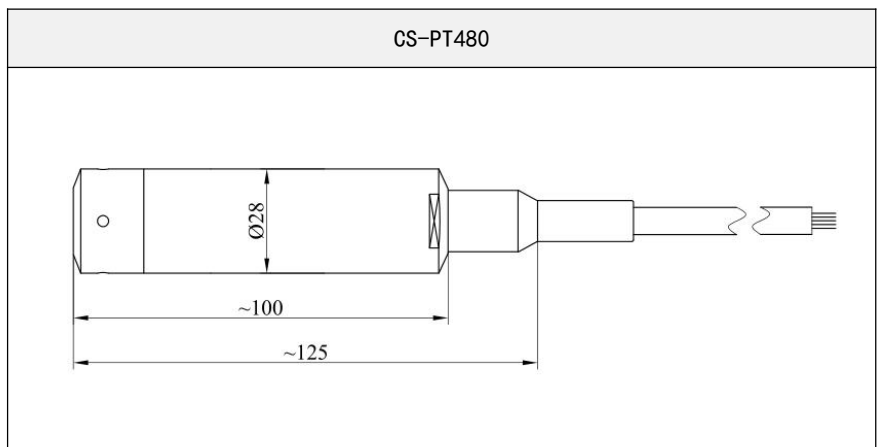
Type Selection Guide

CS-PT480	Type							note
	Code	Measurement Range						
	001Y	0-1m						
	002Y	0-2m						
	005Y	0-5m						
	006Y	0-6m						
	010Y	0-10m						
	050Y	0-50m						
	100Y	0-100m						
	200Y	0-200m						
	350Y	0-350m						
		Code	Accuracy					
		2	±0.25%F.S					
		5	±0.5%F.S					
		Code	Output Signal					
		S	RS485					
		Code	Power supply					
		13	12~30VDC					
		24	3.1~4.2VDC					
		Code	Seal material					
		N	NBR					
		H	HNBR					
		C	CR					
		F	FKM					
		W	Welded structure					
		Code	Cable material					
		PE	PE					
		PU	PUR					
		F4	FEP					
		Code	Cable Length					
		01	1m					
		02	2m					
		04	4m					
		05	5m					
		XX						
CS-PT480	005Y	2	S	13	F	PU	05	

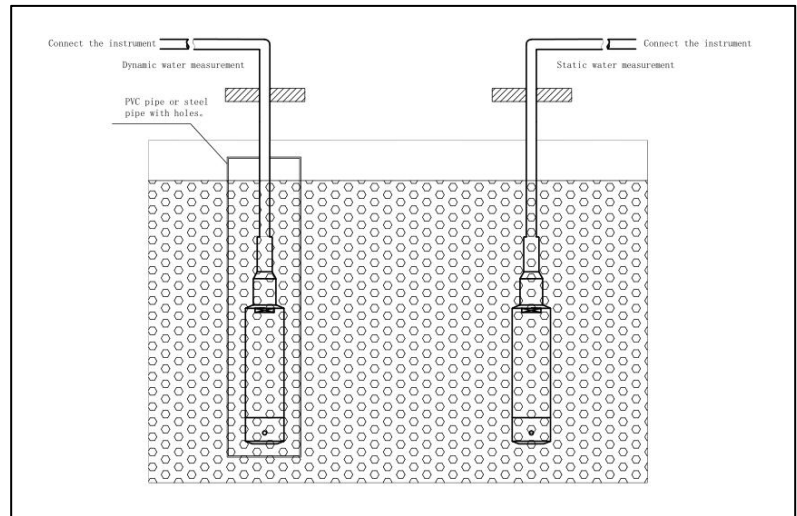
Electrical Connection

	Line color	Line define
	Red	Supply power
	Green / Blue	RS485+
	White	RS485-
	Black	GND
	Yellow	Shield (PE)

Structure and Dimension (mm)



Installation



Notes

1. Only use the pressure sensor to test the medium without 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 the system and put the pressure hole part into the fluid which can dissolve the blocking substance.
3. To protect the transmitter used in areas with lightning, suggest adding a lightning protection device and reliably connecting the shield line to EARTH.
4. Drop the level transmitter into the container without touching the bottom sediment.
5. Please contact the factory if you need anything else.

Disposal methods of hazardous wastes such as waste circuit boards and their components after the end of product life

After the end of the product life, each part shall be distinguished according to the “National hazardous waste list” to determine whether it is hazardous waste. Among them, the waste lithium battery not disassembled is not hazardous waste, and the waste circuit board (including components, chips, plug-ins, pins, etc. attached to the waste circuit board) belongs to hazardous waste.

The part that is not hazardous waste shall be treated as general industrial solid waste, and the lithium battery shall be handed over to the nearby renewable resource recovery department or sent to the product manufacturer for recycling.

Hazardous wastes must be handed over to legally qualified departments for disposal in accordance with national regulations, and shall not be dumped or stacked without authorization. If it is really necessary to store temporarily, protective measures meeting the national environmental protection standards must be taken, and the storage period shall not exceed one year. At the same time, the time and place of temporary storage and the protective measures taken shall be reported to the competent environmental protection department. Hazardous waste transfer activities can be arranged according to the actual production situation. The system shall be strictly implemented in the transfer process

Statement

Chinastar Company. reserves the right to modify the specifications and contents of this instruction. No further notice will be given if any changes are made. Due to product updates, the individual details of this document may not match the product. Please refer to the actual product. The right to interpret this document belongs to Chinastar Company.