

Product Description

CS-PT470 submersible level transmitter is a high-accuracy, compact structure, long terms stability product. with high resistance to abrasion, oil, acid, and alkali cables. CS-PT470 is widely used in potable water supply, and reservoirs/lakes/river water monitoring.

The CS-PT470 complies with intrinsically safe and CE, UKCA certifications.



CS-PT470/L/E

CS-PT470WH

CS-PT470-2

CS-PT470FD

Feature

- ★ $\pm 0.5\%$ F.S
- ★ High accuracy diffused silicon pressure sensor
- ★ Several special structures for different usage
- ★ Anti-freezing, anti-blocking, anti-lightning strike
- ★ Multiply measurement range and output
- ★ Non-polarity two wire current output
- ★ CE.UKCA 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@25℃			
Zero thermal error	±1.25%F.S (0-3mH ₂ O, 0~50℃)	±1%F.S (-10~80℃)		@25℃
Span thermal error	±1.25%F.S (0-3mH ₂ O, 0~50℃)	±1%F.S (-10~80℃)		@25℃
Long term stability	±0.5%F.S/year(0~3mH ₂ O)	±0.25%F.S/year		
Operate Temperature	- 40℃~+85℃			According to O-ring and cable
Compensation Temperature	-10℃~80℃			
Media Compatibility	304 stainless steel 316L stainless steel and Titanium optional			
Seal material	NBR O-Ring, FKM optional			
Wires	Two-wire	Three -wire		
Output Signal	4~20mA	0.5-4.5V	0-10V	
Power Supply	12~30Vdc	5Vdc	12~30Vdc	
Load	(U-10)/0.02(Ω)	≥10kΩ		
Supply Current		≤8mA		
Insulation	> 100M Ω@50V			
Electrical connector	IP68			
Pressure Port	Embedded type			Customized
Cablematerial	PE, PUR and FEP optional			
Weight (excluding cable)	About 250g			
Response Time	10ms			
Pressure Form	Gauge G, Absolute A			
Compliant	CNEX, CE, UKCA			
EMC	EN: 61326-1			
Surge Immunity	EN:61000-4-5: ±0.5KV,±1KV, on I/O Ports &DC lines			
Random Vibration	10g, 5~2000Hz			
Shock	X/Y/Z, 20g, sine 11ms			

Type Selection Guide

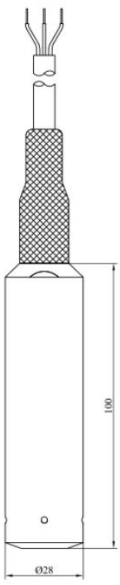

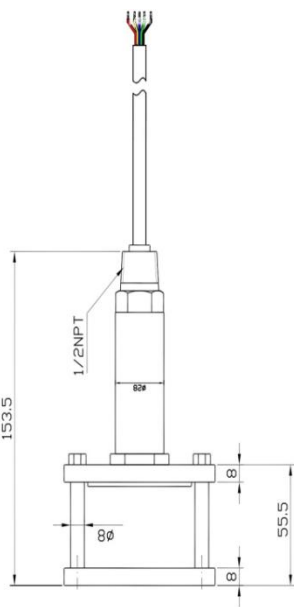
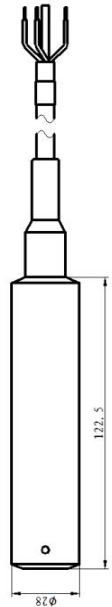
CS-PT470									
Type									
-	Universal type	Code	Measurement Range						
E	Atex type	001Y	0-1m						
L	Lightning	002Y	0-2m						
WH	Filter nose type	003Y	0-3m						
2	Non-fouling	006Y	0-6m						
FD	Freeze proof	010Y	0-10m						
		050Y	0-50m						
		100Y	0-100m						
		200Y	0-200m						
		350Y	0-350m						
		Code	Accuracy						
		2	±0.25%F.S						
		5	±0.5%F.S						
		Code	Output Signal						
		A	4~20mA						
		V	0.5~4.5VDC						
		T	0~10VDC						
		Code	Power supply						
		02	5VDC						
		13	12~30VDC						
		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						
		01	1m						
		02	2m						
		04	4m						
		05	5m						
		XX							

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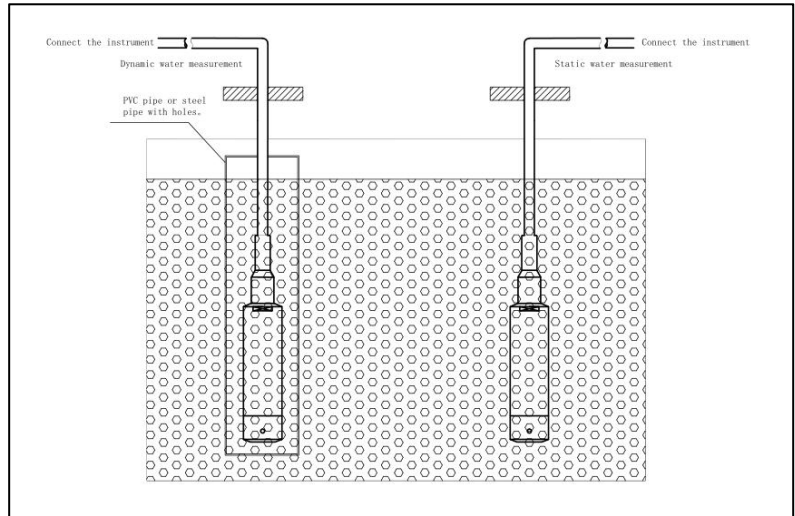
Electrical Connection

	Line color	Line define	
		Two line	Three line
	Red	Supply power (U+)	Supply power (U+)
	Green / Blue	Current output (IO)	Voltage output (VO)
	Black		GND
Yellow	Shield (PE)	Shield (PE)	

Structure and Dimension (mm)

CS-PT470/L/E	CS-PT470WH	CS-PT470-2	CS-PT470FD
			

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.