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## Product Description

CS-PT430 submersible level transmitter is a high-accuracy, compact structure, long terms stability product with high resistance to abrasion, oil, acid, and alkali cables.

CS-PT430 is widely used in potable water supply, and reservoirs/lakes/river water monitoring.

CS-PT430 complies with CE, UKCA certifications.



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## Feature

- ★  $\pm 0.25\%F.S$ ,  $\pm 0.5\%F.S$
- ★ High accuracy diffused silicon pressure sensor
- ★ Diameter  $\phi$  19mm
- ★ Anti-freezing, anti-blocking, anti-lightning strike
- ★ Several special structures for different usage
- ★ Multiply measurement range and output
- ★ Non-polarity two wire current output
- ★ CE.UKCA Intrinsically safe type available

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## 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 <sub>2</sub> 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°C			
Zero thermal error	±1%F.S (0-3mH <sub>2</sub> O, 0~70°C)	±0.75%F.S (-10~80°C)		@25°C
Span thermal error	±1%F.S (0-3mH <sub>2</sub> O, 0~70°C)	±0.75%F.S (-10~80°C)		@25°C
Long term stability	±0.25%F.S/year			
Operate Temperature	- 40°C~+85°C			According to O-ring and cable
Compensation Temperature	-10°C~+80°C			
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			
Cable material	PE, PUR and FEP optional			
Weight(excluding cable)	About 200g			
Response Time	10ms			
Pressure Form	Gauge G, Absolute A			
Compliant	CE, UKCA			
EMC	EN: 61326-1			
Surge Immunity	EN:61000-4-5: ±0.5KV,±1KV, on I/O Ports &DC lines			
RandomVibration	10g, 5~2000Hz			
Shock	X/Y/Z, 20g, sine 11ms			

# CS-PT430—Submersible Level Transmitter

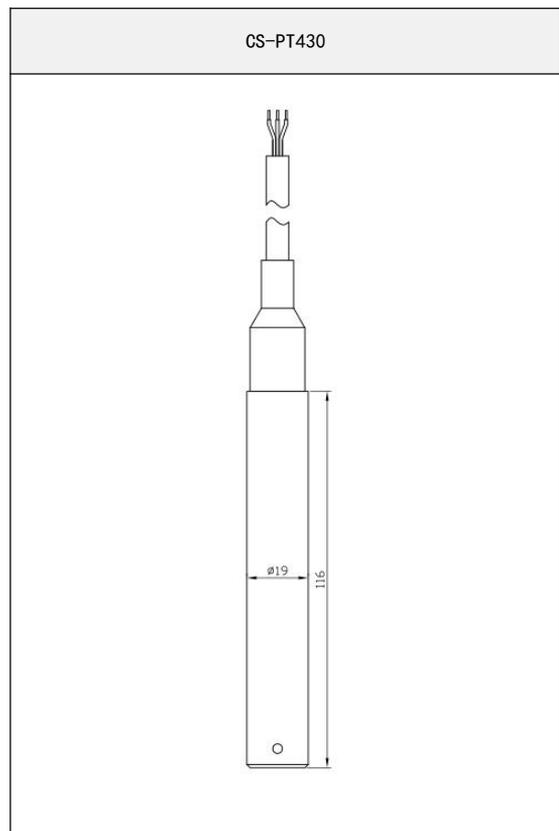
## Type Selection Guide

CS-PT430	Type								备注	
	Code	Range								
	001Y	0-1m								
	002Y	0-2m								
	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							
		A	4~20mA							
		V	0~5VDC							
		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 Length							
		01	1m							
		02	2m							
		04	4m							
		05	5m							
		XX								
CS-PT430	003Y	2	T	13	F	PE		05		

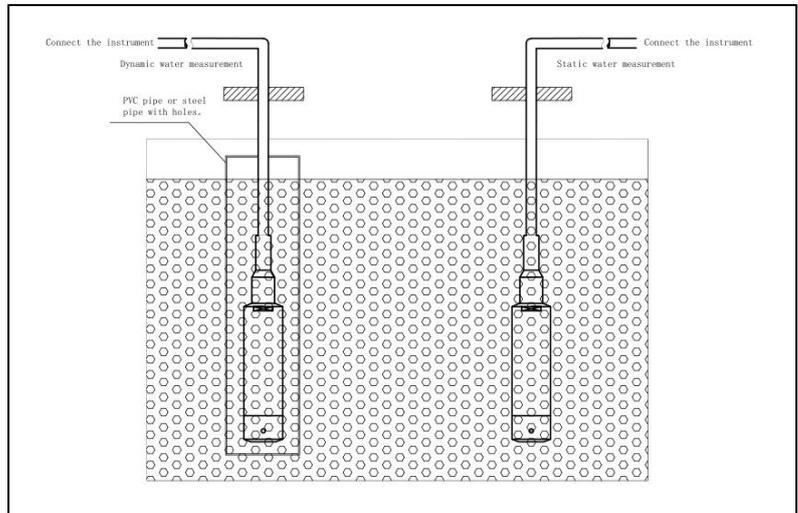
**Electrical Connection**

	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)**



## 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.

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**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

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**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.