

## CS-PT831 Series Pressure Transmitter

### Product Features

- Sputtering film pressure sensor
- High overload pressure and high burst pressure
- Fully welded structure ,no O-ring,no risk of leakage
- Measuring range: 0~25...800bar Gauge
- Accuracy: 0.5 %BFSL
- Output: 4~20Ma、 0.5-4.5V
- Over voltage and Reverse protected
- Electrical connection: DIN 43650 C
- High accuracy and high cost performance
- Suitable for mass production

### Applications

- General pressure measurement
- Machinery manufacturing
- Measurement and control technology
- Hydraulic and pneumatic technology
- Construction machinery

### Description

Designed for general industrial application, CS-PT831 series pressure transmitters feature compact structure, stable quality and high cost performance.

UL certification(range:0~50bar.....400bar) enables extensive use of CS-PT831 series pressure transmitters all over the world. We can supply you in short term products with different pressure units and pressure connections to meet your specific applications.

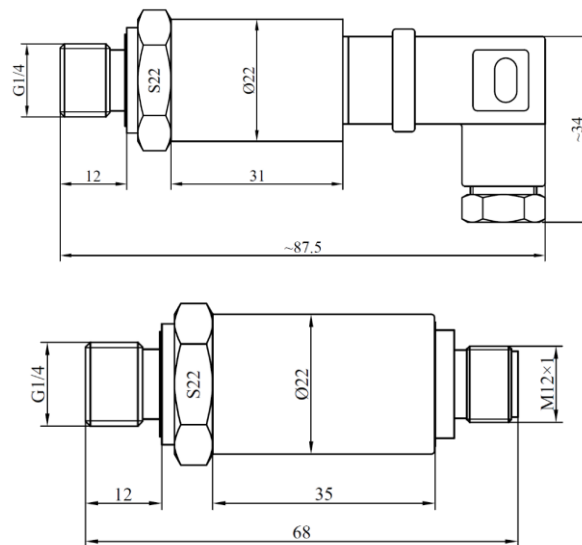
### Performance Parameters

Test condition, Temperature: 25℃; power supply: 12VDC、 5VDC ; relative humidity: 45%~75%; ambient atmospheric pressure: 86KPa~106KPa

Pressure Range	0~25...800bar Gauge	
Output Signal	4~20mA	0.5~4.5VDC
Power supply (U+)	10~30VDC	5VDC
Accuracy at Room Temperature	±0.5% F.S (include no-linearity, hysteresis, repeatability, and calibration error)	
Long-term Stability	±0.25%F.S / year	

Response Time	(10%~90%) ≤10ms	
Medium Temperature	-40~125℃	
Ambient Temperature	-20~85℃	
Storage Temperature	-40~120℃	
Max Supply Current (without Load)		≤ 4 mA
Output Load	≤ ( U-10) / 0.023 Ω (max600Ω)	≥10KΩ
Over Voltage	32VDC	30VDC
Reverse Voltage	-32VDC	-30VDC
Insulation Resistance	≥ 100MΩ@50VDC	
Overload Pressure	2X	
Burst Pressure	10X (max 2000bar)	
Pressure Connection	G1/4	
Electrical Connection	DIN 43650 C、M12	
Housing Material	316L stainless steel	
Vibration Resistance	10g, 5~2000Hz	
Shock Resistance	20g, 11ms half sine	
Ingress Protection	IP65	

### Structure and Dimension(mm)




Address: NO. 1309 , six floor, Building A , on Shang Lin Yuan fourth Road in XI AN Hi-Tech Economic development Area in shan xi Province

Post Number: 710119

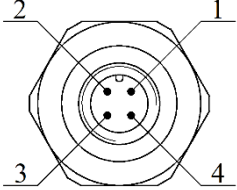
Website: [www.websensor.com](http://www.websensor.com) Fax: 029-88237768

Phone: 88235620 88235720

## Electrical connection

	Pin	Definition
	1	Power Supply (U+)
	2	Current Output (Io)
	3	
	⊕	Shield (PE)

(DIN 43650C)

	Pin	Definition
	1	Power Supply (U+)
	2	Current Output (Io)
	3	
	4	Shield (PE)

M12

## Notice

- a. The pressure transmitter must be used in a medium that is non-corrosive to the seal material and the housing material.
- b. In case the pressure guiding hole of the transmitter is blocked, it is forbidden to use sharp tools to clear it. Instead, one should remove the transmitter from the system, immerse the pressure guiding hole part in the liquid which can dissolve the blockage, and then the blockage will flow out easily.
- c. It's prohibited to open the transmitter by users for calibration or repair.
- d. Please contact Chinastar if you're not sure whether the transmitter is suitable for the medium to be measured.
- e. The transmitter should be installed in a location that is not easily bumped or stepped on.
- f. Exceeding of the transmitter overload pressure may cause permanent damage.
- g. Where lightning may occur, customers should consider lightning protection measures.

## Statement

Chinastar Company reserves the right to modify the specifications and contents of this instruction. No further

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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.

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