

## CS-PT500 Differential Pressure Transmitter

### Product Features

- Diffusion silicon-filled oil core with stainless steel 316L isolation diaphragm
- Stainless steel structure, and Max. static pressure up to 20MPa
- Temperature compensation and aging screening
- Full solid insulation, high stability, reliability and accuracy
- Compact size
- Liquid, gas and other media differential pressure measurement
- Explosion-proof products in line with GB3836.4 standard ExiaII.CT6 requirements

### Applications

- Flow measurement
- Sewage treatment
- Mine downwind differential pressure
- Water level difference of hydropower station
- Urban flood control and drainage
- Underwater engineering
- Groundwater monitoring
- Water-saving irrigation

### Description

CS-PT500 differential pressure transducer is produced by putting OEM differential pressure sensor into full-sealed housing with pressure port for both positive and negative cavities. The differential pressure transducer could be mounted into measuring tube through pressure port or leading tube.

It is cable connection. CS-PT500 differential pressure transducer could be widely used in industrial process control, flow measure, medical device, air dynamical measure and liquid pressure instrument or pneumatic plant, etc.

### Performance specifications

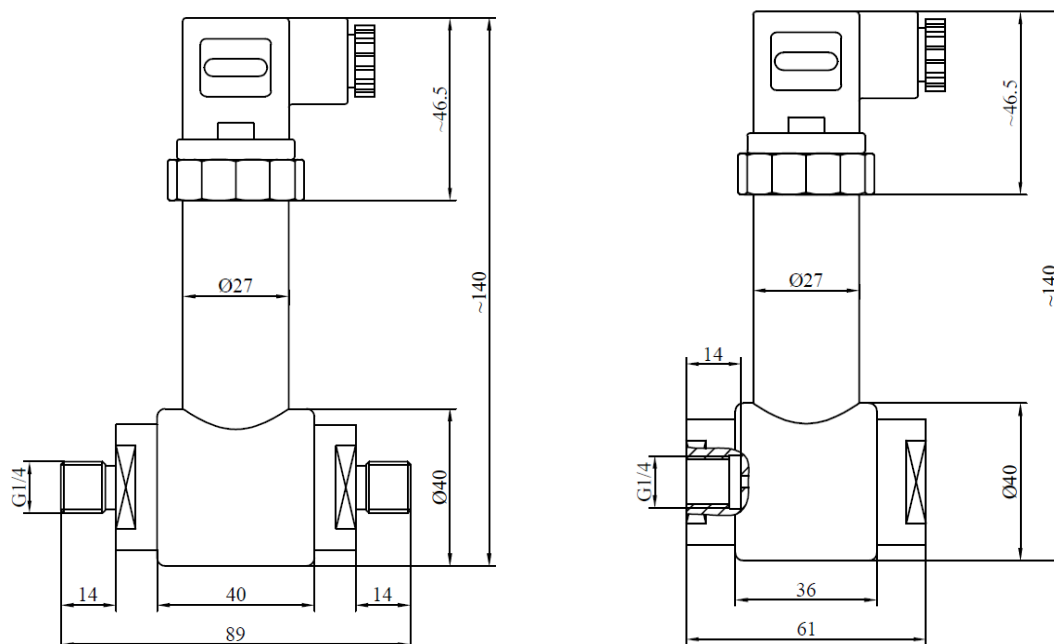
Test condition, Temperature: 25℃; power supply: 12VDC ; relative humidity: 45%~75%; ambient atmospheric pressure: 86KPa~106KPa

Standard range	0~5kPa...2000kPa
Overload Pressure	≥150%F.S
Static Pressure	Max 20MPa (Note 1)
Accuracy at Room Temperature	±0.5% F.S (include no-linearity, hysteresis, repeatability, and calibration error)
Long-term stability.	±0.25% FS/year

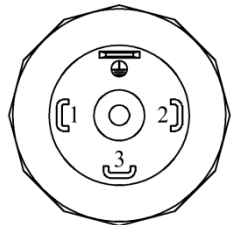

Response Time	(10% ~ 90%) ≤ 10ms
Operating Temperature	-20℃ ~ 105℃
Compensated Temperature	0℃ ~ 50℃
Storage Temperature	-40℃ ~ 105℃
Output Signal	4 ~ 20mA
Supply Voltage	10 ~ 30VDC
Output Load	$\leq (U - 10) / 0.023 \Omega$ (MAX: 600Ω)
Over Voltage	32VDC
Reverse voltage	-30VDC
Insulation Resistance	$\geq 100M\Omega @ 50VDC$
IP Rating	IP65
Random Vibration	10g, 5 ~ 2000Hz
Shock	X/Y/Z, 20g, half-sine 11ms
Drop (any Axis)	1m
Pressure connector	G1/4
connector material	304 stain steel
Electrical connection	DIN 43650A
Seal material	FKM

Note1: For products with a static/difference pressure ratio greater than 10 times, please consult the manufacturer.

## Structure and Dimension (mm)



## Electrical connection(DIN 43650A)

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

## Notes

- The pressure transmitter must be used in a medium that is non-corrosive to the seal material and the housing material.
- 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.
- It's prohibited to open the transmitter by users for calibration or repair.
- Please contact Chinastar if you're not sure whether the transmitter is suitable for the medium to be measured.
- 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 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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