

## Wet Differential Pressure Transmitter CS-PT500

### Feature

- Pressure type: Gauge Pressure
- Accuracy:  $\pm 0.25$ ,  $\pm 0.50\%$ F.S
- Range:  $0 \sim \pm 5\text{kPa}$ ..... $\pm 5000\text{kPa}$
- LED display optional
- Signal Output:  $4 \sim 20\text{mA}$ ,  $0/1 \sim 5\text{V}$ ,  $0 \sim 10\text{V}$
- Power supply:  $10 \sim 30\text{Vdc}$ ,  $12 \sim 30\text{Vdc}$ ,  $24\text{Vdc}$ ,  $24\text{Vac}$
- CE, RoHS approved, Intrinsically safety certificate optional



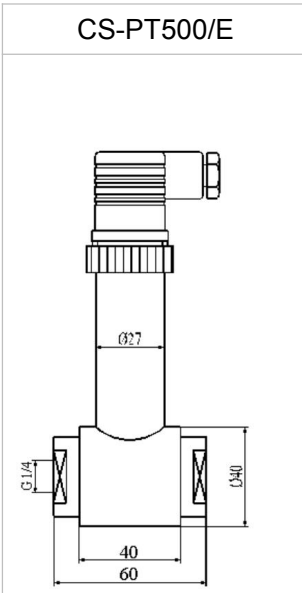
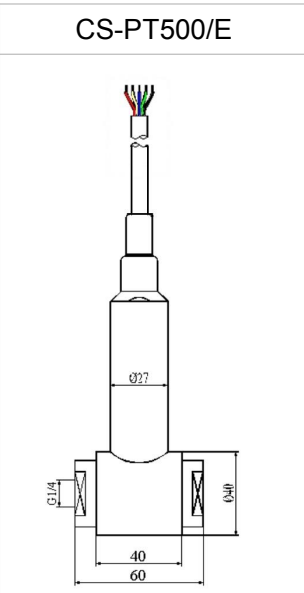
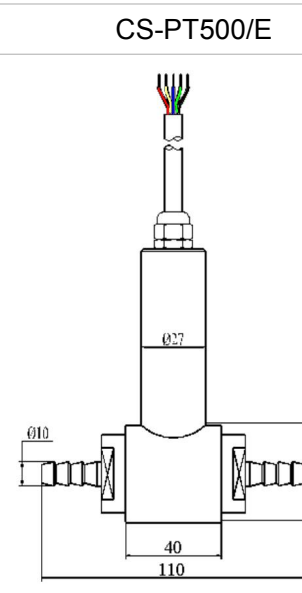
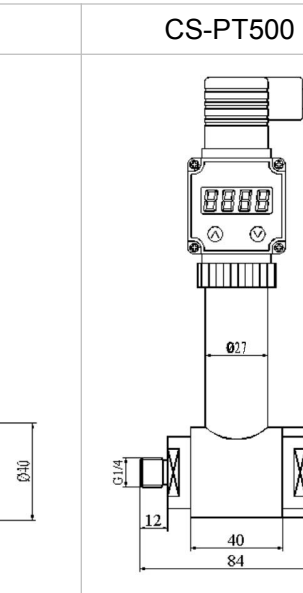
### Application

**Industrial Gas | Flow measurement | Sewage treatment | Wind differential pressure under coal-mine |  
Hydroelectric station water head | Urban flood proof & drainage | Underwater project |  
Groundwater monitoring | Water-saving irrigation | The central air conditioning end control**

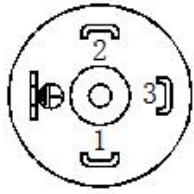


### Description

CS-PT500 wet/wet differential pressure transmitter utilizes a double diaphragm sensor technology that outperforms standard double sensor products in accuracy, reliability and static operating pressure. This differential pressure sensing technology offers 0.25% 0.50% accuracy with static operating pressures up to 10 Times. 304 or 316L stainless steel for choose. It's widely used in the industrial gas monitoring field.

### Structure and Dimension (mm)

CS-PT500/E	CS-PT500/E	CS-PT500/E	CS-PT500 LED
			

## Electrical connection

DIN43650A & DIN43650C					
	Pin	2-Wire		3-Wire	
	1	Power supply	<b>Red</b>	Power supply	<b>Red</b>
	2	Output signal	<b>Green/Blue</b>	GND	<b>Black</b>
	3	---	---	Output signal	<b>Green/Blue</b>
		Shield	<b>Black</b>	Shield	<b>Yellow</b>
Flying cable A & Flying cable B					
	Pin Color	2-Wire		3-Wire	
	<b>Red</b>	Power supply		Power supply	
	<b>Green/Blue</b>	Output signal		Output signal	
	<b>Black</b>	Shield		GND	
	<b>Yellow</b>	---		Shield	
White	---		---		

## Technical parameters

<b>Measuring Range</b>	0~±5kPa.....±5000kPa	<b>Medium compatibility</b>	All 304 compatible corrosive mediums	
<b>Overload pressure</b>	1.5 * pressure range	<b>Insulation</b>	>100MΩ@50V	
<b>Pipeline static pressure</b>	3,5,10 times rated pressure, 20MPa	<b>Stability</b>	Typical value: 0.1%F.S, Maximum value :0.2%F.S	
<b>Accuracy</b>	±0.25%F.S ±0.50%F.S	<b>Operating temperature</b>	-40℃~85℃	
<b>Insulation</b>	>100M Ω@50V	<b>Electrical connection</b>	DIN43650A, Cable	
<b>Response time</b>	10ms	<b>Pressure port</b>	G1/2 G1/4 NPT1/4 M20×1.5 NPT1/2	
<b>EMC</b>	EMI:EN50081-1/-2, EMS:EN50082-2			
<b>Testing medium</b>	Water, gas			
<b>Wires</b>	Two-wire	Three-wire		
<b>Output signal</b>	4~20mA	0~10Vdc		0-5Vdc
<b>Supply voltage</b>	10~30Vdc/24Vdc	24Vac	12~30Vdc	10-30Vdc
<b>Load resistance</b>	(U-10)/0.02(Ω)	>100KΩ		

## Type Selection Guide

CS	Wet differential pressure transmitter							
	Code	Model						
	PT500	Universal						
	PT500G	Only test the dry gas						
	PT500E	Intrinsically safety						
	PT500L	With LED display						
	Code	Span						
	P	psi						
	K	Kpa						
	B	bar						
	M	Mpa						
	Code	Power supply						
	DC	10-30Vdc						
	DC1	24Vdc						
	AC	24Vac						
	DC2	12-30Vdc						
	Code	Output signal						
	A	4-20mA						
	V	0-10Vdc						
	V1	0-5Vdc						
	Code	Precision						
	2	±0.25%F.S.						
	5	±0.50%F.S.						
	Code	Pressure port						
	G	G1/4						
	G2	G1/2						
	N	NPT1/4						
	R	R1/4						
	M	M20X1.5						
	Code	Electric connection						
	D	DIN43650A						
	C	Flying cable						
	Code	Packing						
	B	Bubble bag						
CS	PT500	P	DC	A	2	G	D	B
<b>Note: CS-PT500E comply with 24Vdc power supply, 4-20mA output, Intrinsically safety label</b>								