

CS-PT500 Series of Differential Pressure Transmitter

Piezo-resistance diffuse silicon differential pressure transmitter

- | | |
|-----------------------------------------------------------------|----------------------------------------------|
| ☆ Accuracy: ± 0.25 、 $\pm 0.5\%$ F.S | Applications : |
| ☆ OEM | ☆ flow measurement |
| ☆ Diffused silicon sensor | ☆ sewage treatment |
| ☆ Multiple measurement ranges and Signal outputs | ☆ wind differential pressure under coal-mine |
| ☆ Various outsides and inside screw Installation | ☆ Hydroelectric station waterhead |
| ☆ Non-polarity two-wire current output | ☆ Urban flood proof & drainage |
| ☆ Vdc/ac voltage output | ☆ Underwater project |
| ☆ Intrinsic safety certification | ☆ Underground water monitoring |
| explosion proof certification | ☆ Water-save irrigation |
| CE certification | |
| Powerful electromagnetic interference proof and lightning proof | |



Description

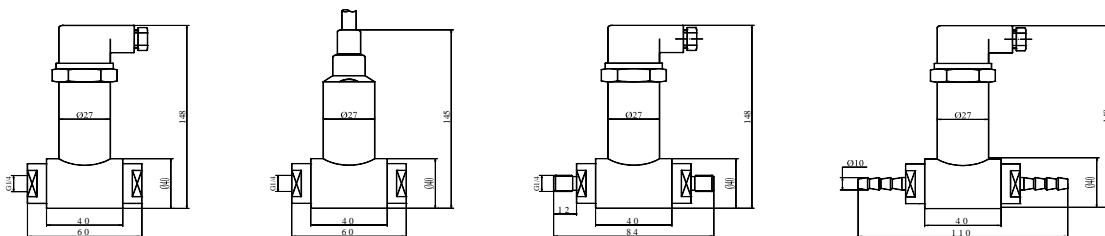
CS-PT500/500T series is a high reliability, high stability and high accuracy differential pressure transmitter by our R& D Dept recent years research. Widely used in liquid , gas differential pressure measurement, such as water, oil, mild corrosive liquid.

This product adopt 1Cr18Ni9Ti stainless steel. The imported oil-filled differential pressure core, special amplifier and V/I convertor to switch circuit ensure resistance to high voltage, current and magnetic field and non-polarity leads.

This product has got intrinsic safety certification, explosion proof certification and CE certification.

This product can made programme calibration on request according to on-site environment.

The lead of two-wire circumfluent is no-polarity, but the three-wire voltage output is Vdc / ac.



CS-PT500 Series of Differential Pressure Transmitter

Technical data

| Name | Data | | | Remark |
|-------------------------------|----------------------------------------------------------------------------------------------------------|-----------------|-------------|-----------------------------------------------------|
| Measurement range | ±5kPa...±5000kPa | | | |
| Overload pressure | 1.5 times rated pressure | | | |
| Pipeline static pressure | 3、5、10 times rated pressure, 20MPa | | | |
| Accuracy | ±0.1%F.S, ±0.25%F.S, ±0.5%F.S | | | |
| Stability | Typical value: 0.1%F.S, Maximum value : 0.2%F.S | | | |
| Operation temperature | -40℃~85℃ | | | |
| Offset temperature | -10℃~70℃ | | | |
| Medium compatibility | All corrosive medium compatible with 1Cr18Ni9Ti and 316L | | | |
| Electrics feature | Two-wire type | Three-wire type | | |
| Signal output | 4~20mA | 0~5V | 0~10V | |
| Power supply | 10~36Vdc | 10~36Vdc/ac | 12~36Vdc/ac | Vdc/ac means both use dc and ac |
| Load resistance | (U-10)/0.02(Ω) | >100kΩ | | |
| insulate | >100M Ω@50V | | | |
| Electrics connector | Waterproof lead with fixed cover , protection rank: IP68; Connector; DIN43650, shell protection: IP65 | | | |
| Pressure junction | Outside & inside: G1/4; hose connection: RG=Ø8, air tap | | | |
| Response time | 10ms | | | |
| Pressure form | Differential pressure | | | |
| Certification | Explosion certification, CE certification | | | |
| Electromagnetic compatibility | Electromagnetic radiation: EN50081-1/-2; Electromagnetic sensitivity: EN50082-2; | | | |
| Lightning proof | Air-conduction pressure : 8000V, Shell & cable conduction pressure: 4000V | | | Customized services available according to request. |

| Electrical Connection | | | | |
|-----------------------|---------|-------------|---------|-------------|
| End No | 2 Wires | Cable Color | 3 wires | Cable color |
| 1 | Power | Red | Power | Red |
| 2 | Output | Blue/Green | Ground | Black |
| 3 | | | Output | Blue/Green |
| GND | screen | Yellow | Screen | Yellow |

| Output Modes | |
|--------------|-------------------------------------------------|
| 2 wires | 4 to 20 mA |
| 3 wires | 0 to 5V, 0.5 to 4.5V, 0 to 10V, 0/4 to 10/20 mA |