

Diffused Silicon Vacuum Absolute 0-10v Water Liquid Feul Oil Pressure Transmitter Sensor Gas Pipe Pneumatic Pressure Transmitter



CE RoHS ISO 9001 SGS FC

- ◆ In: -0.1~0~100Mpa
- ◆ Out: 0~10Vdc
- ◆ PWR: DC12~36V
- ◆ Thread: M20*1.5

For Water/Oil/Gas/Liquid

Hirschmann Pressure Transmitter

Diffused Silicon Vacuum Absolute 0-10v Water Liquid Feul Oil Pressure Transmitter Sensor Gas Pipe Pneumatic Pressure Transmitter

This link is special for:

1. Measuring range: the one you choose
2. Output signal: 0~10V

3. Power supply: DC24V

4. Connection thread: M20*1.5

Notes:

What we can make:

1. Available measuring range: any range within -0.1Mpa~0~100Mpa (-1bar~0~1000bar).

2. Available output signal: 4~20mA, 0-10V, 0-5V, 0.5~4.5V, RS485.

3. Available power supply: 12~30Vdc, 24Vdc, 12Vdc

4. Available thread: M20*1.5, G1/2, G1/4, NPT1/2, NPT1/4, etc

So: if you need other parameters, please contact me.

And tell me the measuring range, output signal, power supply, thread size.

We can make special customization for you.

Product Description



Pressure Transmitter

-0.1~0~100MPa

4~20mA/0~5V,0~10V,0.5~4.5V/RS485

- ✓ Diffused silicon core
- ✓ 0.2%FS High accuracy
- ✓ Strong impact resistance



1>>. ELPT300 pressure transmitter used sensitive & high performance diffusion silicon piezoresistive chip.

2>>. The internal circuit board converts the pressure signal into standard analog signal,users can directly connect the transmitter with computer interface card,control instrument,intelligent instrument or PLC.

3>>. This pressure transmitter has many good features,small volume,light weight,easy to install,all stainless steel sealing structure,high anti-vibration and anti-impact performance.

4>>. This pressure transmitter is widely used in process control, aviation, aerospace, automobile, medical equipment and many other fields.

Technical Specifications



Product Parameters

| | |
|-------------------------|-------------------------------------|
| Product name | Pressure transmitter |
| Pressure range | -0.1~0~100Mpa |
| Output signal | 4~20mA, 0~5V, 0~10V, RS485 |
| Power supply | 12~36Vdc(24Vdc) |
| Accuracy | 0.5%FS(default), 0.2%FS |
| Response time | ≤10mS |
| Overload capacity | 150%FS |
| Compensation temp. | -10~70°C |
| Ambient temp. | -40~85°C |
| Long term stability | ±0.2%FS/year |
| Zero temp. drift | ±0.5%FS/°C |
| Sensitivity temp. drift | ±0.5%FS |
| Mechanical vibration | 20g(20~5000Hz) |
| Sampling time | 20 times/second |
| Insulation | ≤500MΩ |
| Protection grade | IP65 |
| Compatible media | Various media compatible with SS316 |

Product Features

1

Imported silicon piezoresistive sensor

Instantaneous withstand pressure 150%FS

Small temperature drift



2

High quality anti buffer damping

3.5mm standard pressure hole + anti-buffer damping

Accurate pressure measurement



3. Cabinet shape & Precise measurement

- Reduce the probe impact from the medium
- Stainless shell, electronic connect Hirschmann box



4. Sealed design & Waterproof IP65

- 304/316 SS material,
- seals construction with O-ring, 8 hole filter cap waterproof IP65



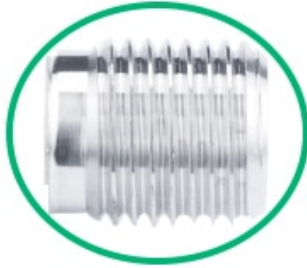
5. Built in damping, Anti-damping design

- Resistant to 150%FS instantaneous impact
- Overload capacity 150%FS

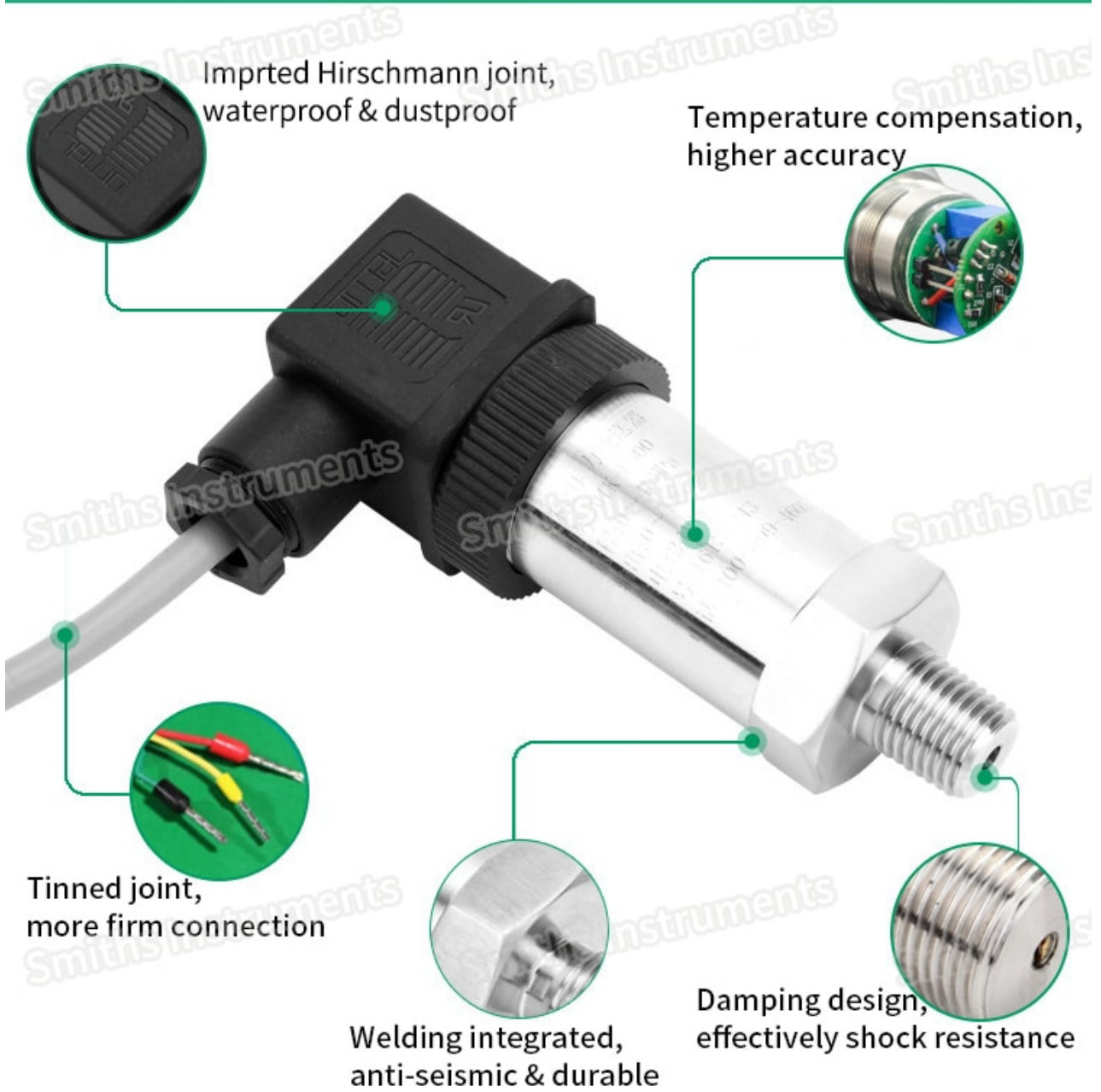
Smiths Instruments

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Product Features



Pressure Transmitter Components



Product Selection

Product Selection

Model: ELPT300-T3

Pressure range: R: -0.1~0~100Mpa

Pressure type: G: Gauge pressure; A: Absolute pressure; S: Seal pressure;

Accuracy: A1: 0.5%FS (Default); A2: 0.2%FS;

Output signal: O1: 4-20mA(2 wires); O2: 0-5V(3 wires); O3: 1-5V(3 wires);
O4: 0-10V(3 wires); O5: RS485(4 wires); O6: 0.5-4.5V(3 wires);

Power supply: P1: 24VDC (Default); P2: 12VDC; P3: 5VDC(for 0.5-4.5V);

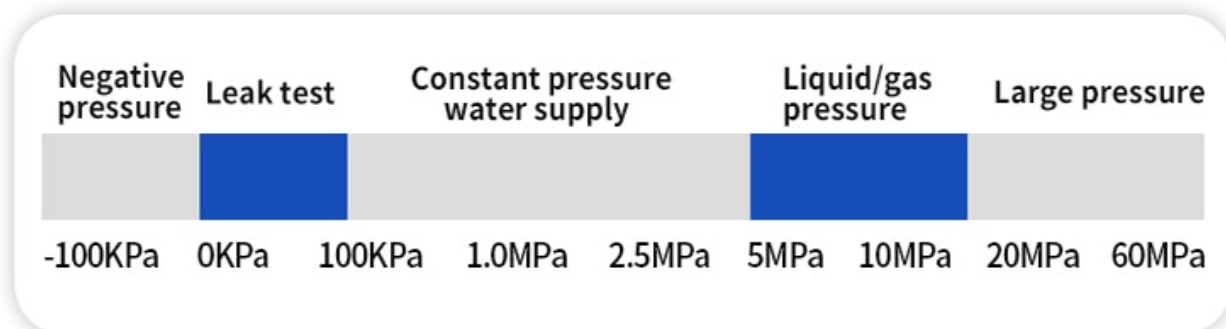
Thread size: T1: M20*1.5; T2: M14*1.5; T3: G1/2; T4: G1/4;
T5: G3/8; T6: NPT1/4; T7: NPT1/2; T8: others

Electrical connection: E1: Waterproof direct lead; E2: Aviation plug;
E3: Hirschmann; E4: Hirschmann with LED;
E5: Hirschmann with LCD;
E6: Aluminum junction box;

ELPT300-T3 R G A1 O1 P1 T1 E3

eg: ELPT300-T3-R-G-A1-P1-T1-E3

Pressure range confirmation



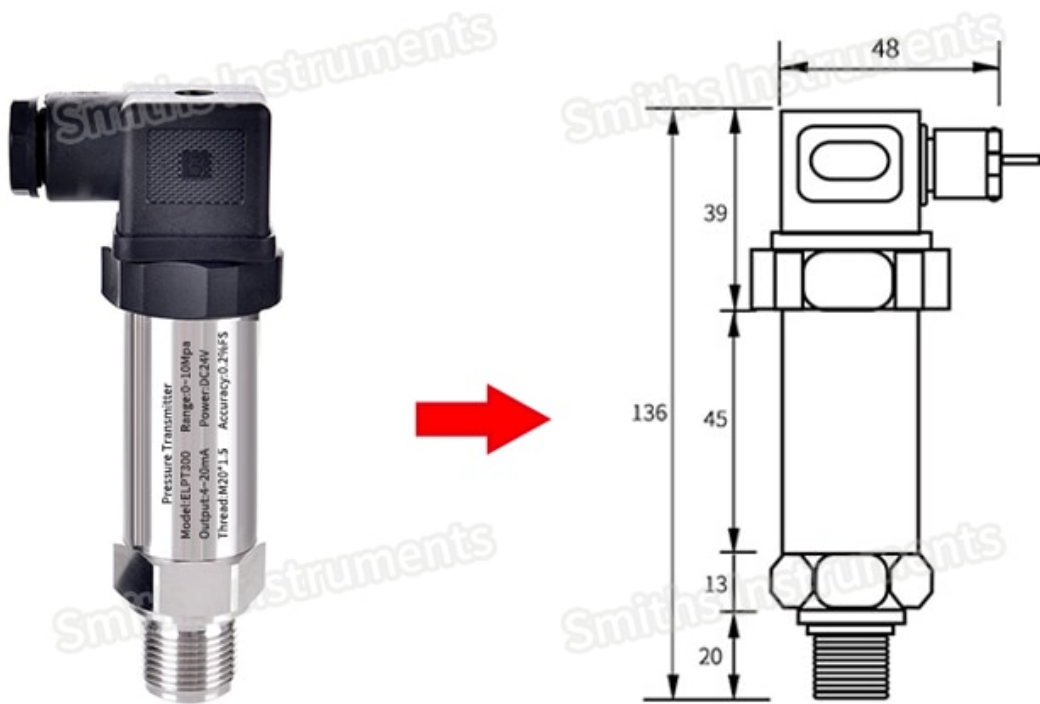
Pressure range table

| Code | Range | Code | Range | Code | Range | Code | Range |
|------|-------------|------|-------------|------|----------|------|-----------|
| W1 | 0~1kPa | W2 | 0~2kPa | W3 | 0~3kPa | W4 | 0~4kPa |
| W5 | 0~6kPa | W6 | 0~10kPa | W7 | 0~16kPa | W48 | 0~20kPa |
| W9 | 0~25kPa | W10 | 0~40kPa | W11 | 0~60kPa | W12 | 0~100kPa |
| W13 | 0~0.16MPa | W14 | 0~0.25MPa | W15 | 0~0.4MPa | W16 | 0~0.6MPa |
| W17 | 0~1.0MPa | W18 | 0~1.6MPa | W19 | 0~2.5MPa | W20 | 0~4MPa |
| W21 | 0~6MPa | W22 | 0~10MPa | W23 | 0~16MPa | W24 | 0~25MPa |
| W25 | 0~40MPa | W26 | 0~60MPa | W27 | 0~100MPa | W28 | 0~-100kPa |
| W29 | -100~100kPa | W30 | -100~300kPa | | | | |

Thread size table

| Code | Thread | Code | Thread | Code | Thread | Code | Thread |
|------|---------|------|----------------|------|--------------|------|----------|
| F1 | M8X1 | F2 | M10X1 | F3 | M12X1 | F4 | M12X1.25 |
| F5 | M12X1.5 | F6 | M14X1.5 | F7 | M16X1.5 | F8 | M18X1.5 |
| F9 | M20X1.5 | F10 | M22X1.5 | F11 | M24X1.5 | F12 | M27X1.5 |
| F13 | M33X2 | F14 | M42X1.5 | F15 | | F16 | |
| F17 | G1/8 | F18 | G1/4 | F19 | G3/8 | F20 | G1/2 |
| F21 | G3/4 | F22 | G1' | F23 | G1/4(female) | F24 | |
| F25 | NPT1/8 | F26 | NPT1/4 | F27 | NPT3/8 | F28 | NPT1/2 |
| F29 | NPT3/4 | F30 | NPT1/4(female) | F31 | | F32 | |
| F33 | PT1/8 | F34 | PT1/4 | F35 | PT3/8 | F36 | PT1/2 |

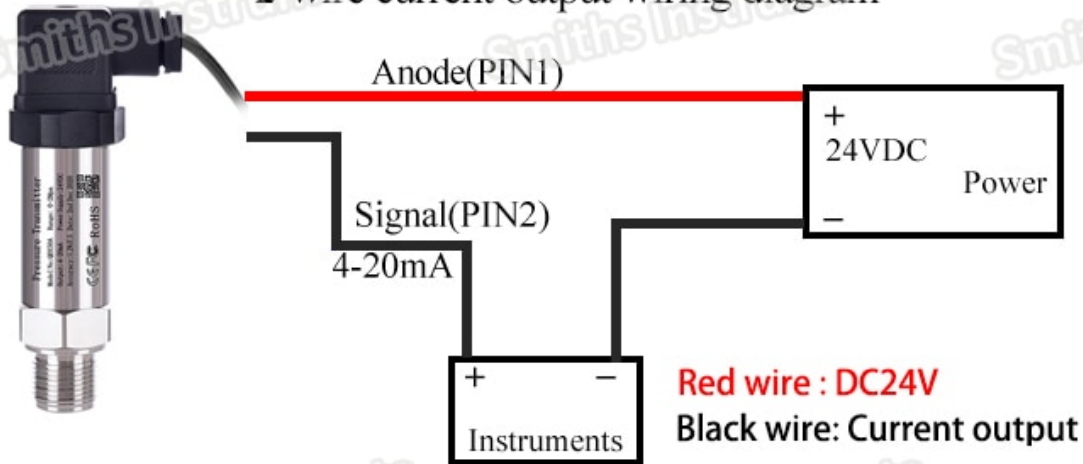
Product Dimension



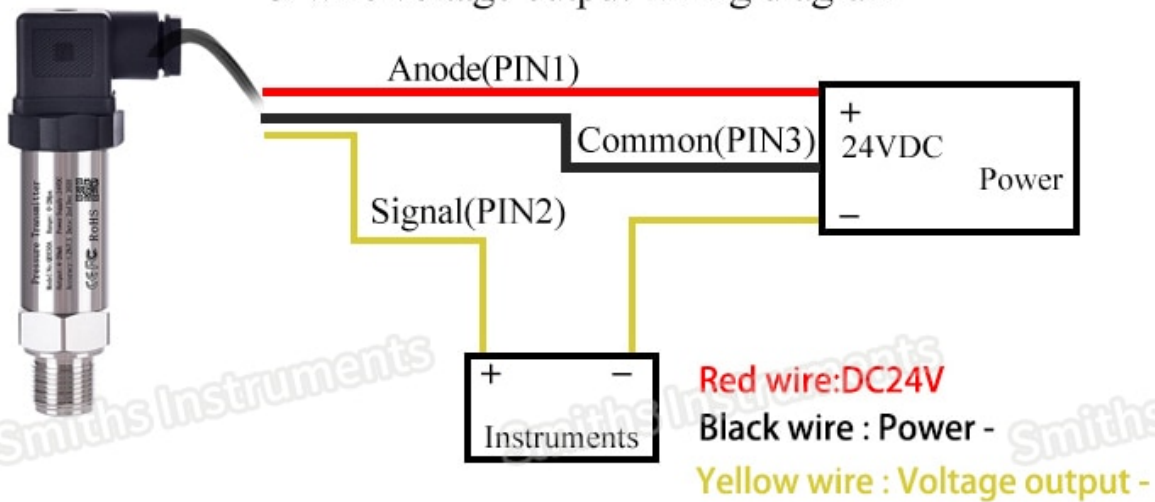
Product Wiring Diagram

Wiring Diagram

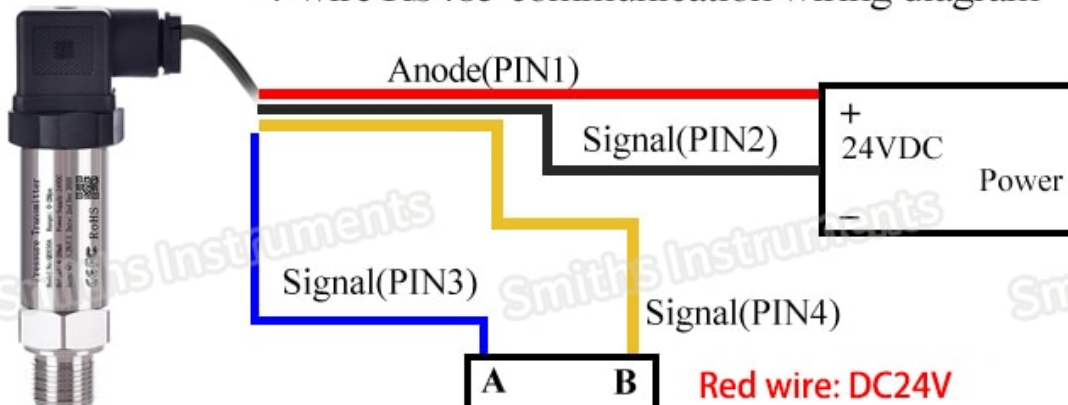
2-wire current output wiring diagram



3-wire voltage output wiring diagram



4-wire RS485 communication wiring diagram



Instruments

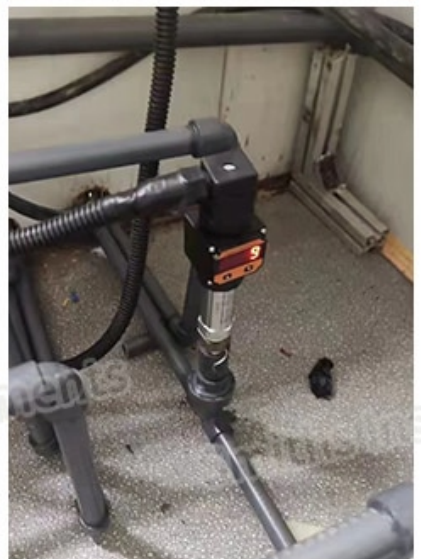
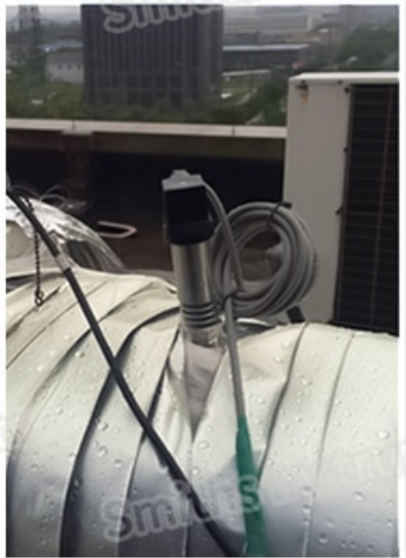
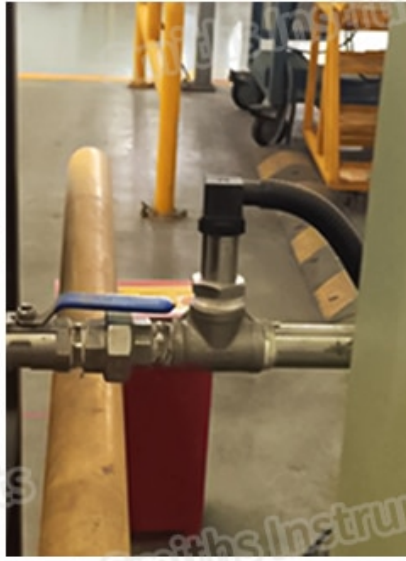
Black wire : Power -

Blue wire : RS485 A

Yellow wire : RS485 B

Product Application

Product Application



Real Product Pictures



