

Main specifications

- ▼ Pressure range
35kPa, 70kPa, 100kPa, 250kPa, 400kPa, 600kPa, 1MPa, 1.6MPa, 2.5MPa, 4MPa, 6MPa, 10MPa, 16MPa, 25MPa
- ▼ Pressure type
Gauge pressure /
Absolute pressure /
Sealed gauge pressure
- ▼ Electrical connection
Wire connection /
Pin connection
- ▼ Diaphragm connection type
Standard welding /
Front welding /
Flush diaphragm
- ▼ Wire connection
4-wire (typical) /
5-wire (option)
Length: 39xØ0.015mm
Silicon shielded
Heat resistance: 200°C
- ▼ Pin connection
Kovar pin (0.6um gold plated)
- ▼ Sealing
O-ring sealing
Material: NBR, Viton (option)
- ▼ Oil-filling
Silicon oil (standard)
Olive oil (optional, for sanitary application)
- ▼ Operating temperature
-40 to 125°C
- ▼ Storage temperature
-40 to 125°C
- ▼ Vibration resistance
20g (20-5000Hz)
- ▼ Protection level
IP65

Other Specifications

- ▼ Diaphragm material
SS316L
- ▼ Housing material
SS316L
- ▼ Output signal
4~20 mA (Power supply 24V) /
0.5 to 4.5V (Power supply 5V) /
I²C (Power supply 3.3V)
- ▼ Power supply
24V / 5V / 3.3V
- ▼ Accuracy (include linearity, repeatability, and hysteresis)
±0.25% F.S. (Typical)
- ▼ Zero and span temp. drift
0.02% F.S./°C (≥100kPa)
0.04% F.S./°C (<100kPa)
- ▼ Long term stability
±0.2% F.S. / year
- ▼ Compensated temperature
-10 to 70°C / (Typical)
0 to 60°C (<100kPa)
- ▼ Insulation resistance
>200MΩ / 250VDC
- ▼ Bridge resistance
Min. 2600Ω
Max. 5500Ω
- ▼ Operating overpressure
≤70kPa: 3*F.S.
<25MPa: 2*F.S.
≥25MPa: 1.5*F.S.
- ▼ Weight
About 40g



Wire connection
Standard welding



Wire connection
Front welding

Industrial Pressure Sensor

Model: PS(E)-WT10

Introduction

PS (E)-WT10 industrial pressure sensor is a standard and economical pressure sensor that applied in air and liquid pressure measurement. Each sensor adopts a high sensitivity piezoresistive silicon pressure chip. The housing is filled with oil for pressure transmission. PS (E)-WT10 sensor is specially designed for industry application with long-term stability.



Wire connection
Flush diaphragm



Pin connection
Standard welding



Due to the variety of customization, the picture is only for reference, please confirm the actual item with our sales. (If there is any change on specification, please take the latest version as standard.)

Features

- OEM service
- Amplified output (internal ASIC)
- Available output signal -
4~20 mA / 0.5 to 4.5V / I²C
- Adopts high-tech piezoresistive silicon chip
- Long-term stability
- Various pressure range available

Typical measurement range

Code	Range	Code	Range	Code	Range	Code	Range
1	0~35kPa	2	0~70kPa	3	0~100kPa	4	0~250kPa
5	0~400kPa	6	0~600kPa	7	0~1MPa	8	0~1.6MPa
9	0~2.5MPa	10	0~4MPa	11	0~6MPa	12	0~10MPa
13	0~16MPa	14	0~25MPa				

Wiring instruction

Output signal	Wire	Connection
4~20mA	Red	Power (+)
	Blue	Output (+)

Output signal	Wire	Connection
0.5 to 4.5V	Red	Power (+)
	Blue	Output (-)
	Yellow	Output (+)

Output signal	Wire	Connection
I ² C	Red	Power (+)
	Blue	Power (-)
	Yellow	SCL
	White	SDL

How to order

PS (E)-WT10		Industrial Pressure Sensor				
Code		Pressure range				
7		Please refer to typical measurement range and select corresponding code				
Code		Pressure type				
A		Absolute pressure				
G		Gauge pressure				
SG		Sealed gauge pressure				
Code		Electrical connection				
W		Wire connection				
P		Pin connection				
Code		Diaphragm connection type				
SW		Standard welding				
FW		Front welding				
FD		Flush diaphragm				
Code		Output signal and power supply				
O1		4~20mA (power supply 24V)				
O2		0.5 to 4.5V ratiometric (power supply 5V)				
O3		I ² C (power supply 3.3V)				
Code		Other requests				
/A		Third party notarized document				
/B		Inspection report (issued by Re-Atlantis)				
/C		Tag				
/D		5-wire connection				
/E		O-ring material - Viton				
/F		Oil-filling - Olive oil				
PS (E)-WT10	7	G	W	SW	O1	Order example: PS (E)-WT10-7-G-W-SW-O1