

HR-PT11

- Piezoresistive silicon chip employed
- Perfect long term stability
- MEMS Technology
- Polarity protection
- CE certificate



HR-PT11 industrial pressure sensor is a standard and most popular sensor applied in air and liquid pressure measuring. A high sensitivity silicon pressure chip is employed in the transducer. The sensor is welded with the housing, no leakage will happen. It is more reliable compared with O-ring sealing for leakage.

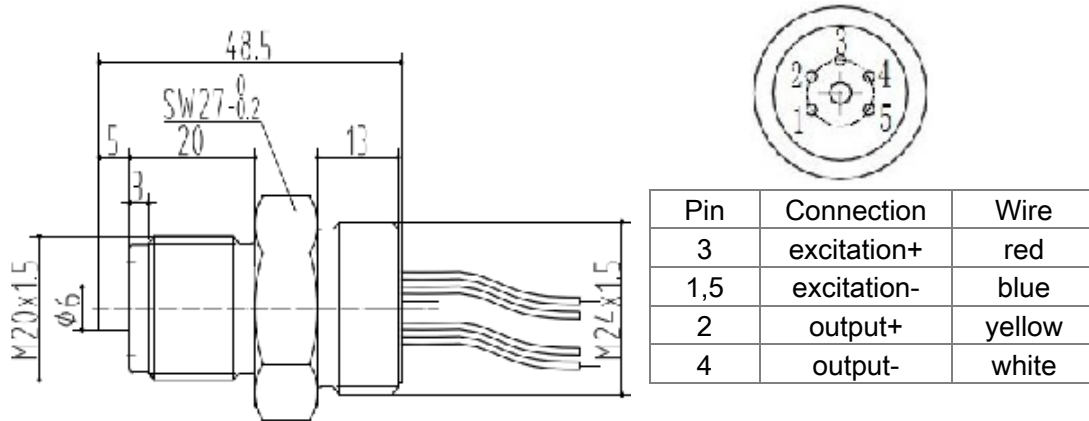
Caution

The sensor is welded with housing, so no leakage will happen. That is more reliable compared with O-ring sealing. But if the sensor has a problem, the housing will be wasted.

Pressure	
Pressure range	10Kpa, 35kpa, 70kpa, 100kpa, 250kpa, 400kpa, 600kpa, 1Mpa, 1.6Mpa, 2.5Mpa, 4Mpa, 6Mpa, 10Mpa, 16Mpa, 25Mpa, 40Mpa, 60Mpa, 100Mpa
Pressure reference	Gauge Pressure Absolute Pressure Sealed Gauge Pressure
Overpressure	300%F.S.(70Kpa) 200%F.S.(< 25Mpa) 150%F.S.(≥25Mpa)
Output Signal	
Zero output	±2mV
Span output	100mV(Typical) 60mV(for 10kpa)
Specification	
Accuracy (linearity, repeatability and hysteresis)	±0.25%F.S. (Typical)
Excitation	1.5mA (Typical) 10VDC
Compensated temp.	-10--70°C(Typical)
Operating temp.	-40-120°C
Storage temp.	-40-125°C
Zero temp. coefficient	0.02%F.S.(≥100kPa) 0.03%F.S.<100kPa)
Span temp. coefficient	0.02%F.S.(≥100kPa) 0.03%F.S.<100kPa)

Insulation resistance	> 100Mohm/250VDC			
Bridge resistance	Min.	Typ.	Max.	Unit
	2800	3300	3800	ohm
Long term stability	≤0.2%F.S.S/year			
Vibration	20g (20--5000HZ)			
Oil filling	Silicon Oil (Typical) olive oil available for sanitary application fluorin oil available for oxygen measuring application			
Housing and diaphragm	Stainless steel 316L			
Wire connection	4 wire (typical) 5 wire (available) 39×φ0.015, Silicon shielded, 200°C bearing			
Pin connection	Kovar pin (0.6um Gold plated)			
Weight	185g(approx)			

Drawing



How to order

HR-PT11

XX — XX — XX — XX — XX — XX

Pressure range

Please write directly

Pressure reference

- A: absolute pressure
- G: gauge pressure
- S: sealed gauge

Excitation

- C: 1.5mA
- D: others (please specify)

Housing connection

Please write directly

Pressure connection

- A1: M20*1.5 (with tube)
- A2:M20*1.5
- A3: others (please specify)

Electrical connection

- W: wire connection
- P: pin connection