# AC13(WT13) Industrial Pressure Sensor



- Piezoresistive silicon chip employed
- Perfect long term stability
- MEMS technology
- CE certificate
- Sensor diameter: 13mm

AC13(WT13) 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 sensor. The housing is filled with oil for pressure transmission. The most important specification for industry application is long term stability. The AC13(WT13) sensor is designed for industry application with perfect long term stability.

### Diaphragm and pressure range

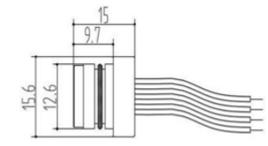
The diaphragm diameter has tight relation with pressure measured. Low pressure requires large diameter and high pressure needs small diameter. This is caused by oil expansion during temperature changing. It creates internal pressure due to the resistance of the diaphragm. The smaller diaphragm will create large internal pressure, and it is difficult to make zero compensation.

#### Caution

Please do not touch the diaphragm by finger and other hard objects, or it may be damaged.

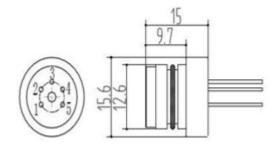
Pressure range									
Pressure range	1MPa, 1.6MPa, 2. available)	5MPa, 4MPa,	6MPa, 10MPa,	16MPa,	25MPa,	40MPa,	60MPa,	100MPa(bar	and psi ur
Pressure reference	Absolute pressure Sealed gauge pressure								
Overpressure	200%F.S.(<25Mpa)   150%F.S(≥25Mpa)								
Output signal									
Zero output	±2mV								
Span output	100mV(Typical)								
Specification									
Accuracy (linearity, repeatability and hysteresis)	±0.25%F.S. (Typical)								
Excitation	1.5mA (Typical)								
Compensated temp.	-10-70°C(Typical)								
Operating temp.	-40-125℃								
Storage temp.	-40-125℃								
Zero temp. coefficient	0.02%F.S./ °C (≥4MPa)   0.03%F.S. / °C (<4MPa)								
Span temp. coefficient	0.02%F.S. / °C(≥4MPa)   0.03%F.S. / °C(<4MPa)								
Insulation resistance	>200Mohm/250VDC								
Bridge resistance	Min. N	Max.	Unit						
	2600 5	5500	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								
O-ring	NBR, Viton								
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 platted)								
Weight	17g(approx)								

### Wire connection



In mm

Connection
excitation+
excitation-
output+
output-



Pin	Connection
3	excitation+
1,5	excitation-
2	output+
4	output-

# How to order

