



HT24 Piezoresistive Silicon Pressure Sensor

Description

HT24 is piezoresistive silicon pressure sensor, the main element is a diffused silicon with high stability. The measured pressure is transferred from 316L stainless steel diaphragm to sensing element via silicon oil, utilizing the piezoresistance effect of diffused silicon to transfer pressure to voltage signal and fulfills pressure measurement. It is flush membrane configuration and easy to clean. It can be used for food industry.

Features

- ◇ Measurement range: 0~35KPa~20Mpa
- ◇ High Accuracy and stability
- ◇ flush membrane configuration
- ◇ Full 316L Stainless steel

Application

- ◇ Air and Level pressure measurement
- ◇ Industry process control
- ◇ Food and the beverage industry
- ◇ Medicine



Electrical Data

- Supply : 1.5mAD
- Input impedance: 3KΩ~6KΩ
- Output impedance: 2.5KΩ~6KΩ
- Insulation resistance: ≥100MΩ/50VDC
- Insulation voltage: 500VAC between the housing and electrical connection will not damage
- Medium compatible: liquid, gas compatible with 316L stainless steel

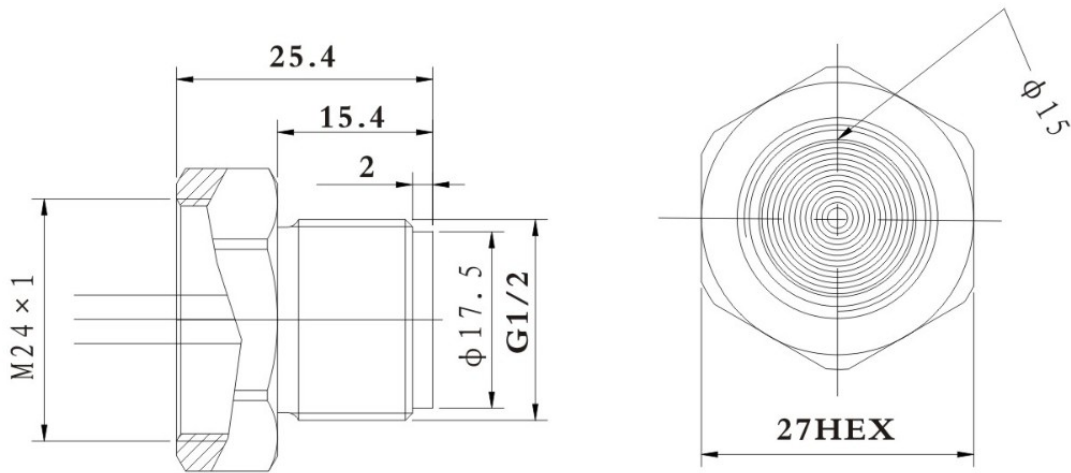
Performance Specification

Parameters	Range: 0~10KPa、35KPa、0~70KPa、100KPa、200KPa、350KPa、700KPa、1000KPa、2000KPa、3500 KPa、7MPa、10MPa、20MPa、35Mpa、60MPa、100MPa		
	Typical.	Max.	Units
Pressure Non-linearity	±0.15	±0.3	%F.S
Pressure Repeatability and Hysteresis	0.02	0.05	%F.S
Zero Output	0±1	0±2	mV
Span Output	100±10	100±30	mV
Temperature Error-Zero	±0.5	±1	%F.S
Temperature Error-Span	±0.5	±1	%F.S
Proof Pressure	3X		Rated range
Operating Temperature Range	-20~80		℃
Compensated Temperature Range	0~70, 0~50(Range ≤20KPa)		℃
Storage Temperature Range	-40~125		℃

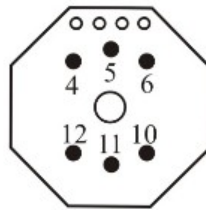
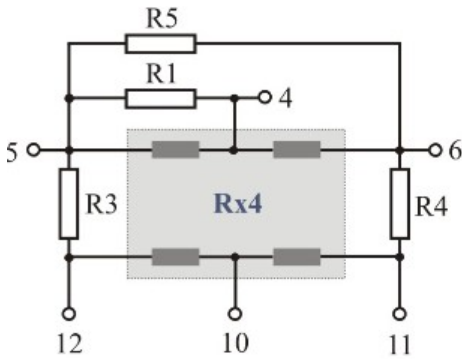
Note :Above parameter under condition: Supply:1.5mA Temperature: 25℃



Dimension



Electrical Connection and Circuitous Philosophy



5	V+	Red
6	V-	Yellow
4	Out+	Blue
10	Out-	Green

Ordering Information

HT24 0010 K G 01

Model
 Pressure Range

Electrical: 01= Gold-plated kovar 6 pin

02= flexible silicon cable

Pressure type: G=Gauge, A=Absolution, S=Sealed gauge

Unite:K=KPa, M=MPa, B=bar, P=Psi