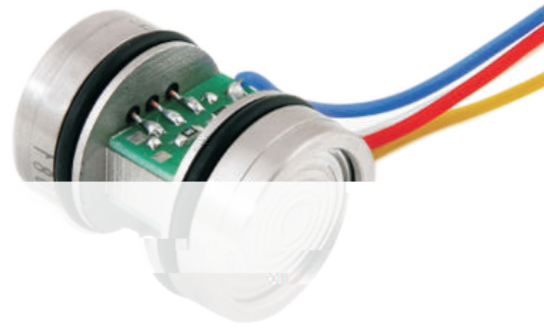


# OEM PRESSURE SENSOR GS21

## Description

GS21 piezoresistive differential pressure sensor is standard and common OEM pressure sensor applied for differential pressure measurement. High sensitivity and long term stability silicon Oil-filled sensor ship is employed and isolated from measured media by a stainless steel diaphragm and body with  $\Phi 19\text{mm}$  diameter. The high and low pressure sides are protected by isolated diaphragm. It can be used for measuring corrosive and conductive flow media. The measured differential pressure is transmitted onto the die through the diaphragm and filling silicon oil, so that the sensor could measure differential pressure precisely.



## Technical Specifications

test condition of data: 25°C (77°F)

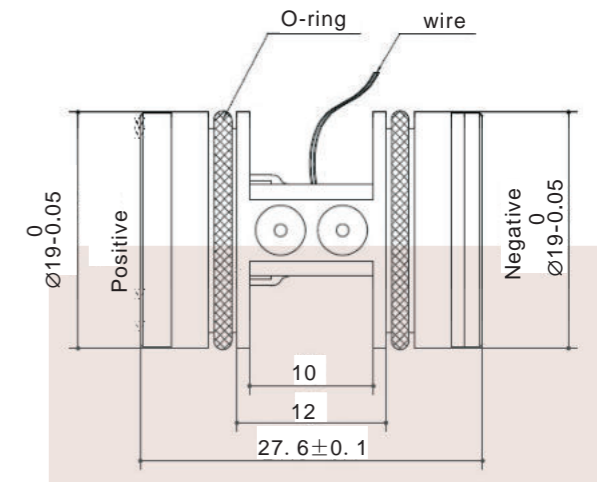
pressure range	0~10kPa...2MPa		
pressure type	differential pressure (D)		
overpressure	300%FS		
zero output	$\pm 2\text{mV}$		
output signal	20kPa	$50 \pm 10\text{mV}(\text{typ.})$	$50 \pm 30\text{mV}(\text{max.})$
	35kPa	$100 \pm 10\text{mV}(\text{typ.})$	$100 \pm 30\text{mV}(\text{max.})$
excitation	1.5mA		10Vdc(option)
accuracy	0.25%FS(typ.)		0.3%FS(max.)
long-term stability	0.2%FS/year		
temp. coefficient of zero	20kPa	$\pm 1\% \text{FS} @ 25^\circ\text{C}(\text{typ.})$	$\pm 2\% \text{FS} @ 25^\circ\text{C}(\text{max.})$
	35kPa	$\pm 0.5\% \text{FS} @ 25^\circ\text{C}(\text{typ.})$	$\pm 1\% \text{FS} @ ^\circ\text{C}(\text{max.})$
temp. coefficient of span	20kPa	$\pm 1.5\% \text{FS} @ 25^\circ\text{C}(\text{typ.})$	$\pm 2\% \text{FS} @ 25^\circ\text{C}(\text{max.})$
	35kPa	$\pm 0.5\% \text{FS} @ 25^\circ\text{C}(\text{typ.})$	$\pm 1\% \text{FS} @ ^\circ\text{C}(\text{max.})$
compensated temperature range	0~+70°C, 0~+50°C(for pressure range 20kPa)		
operating temperature range	-20~+80 °C		
storage temperature range	-40~+125 °C		
Insulating resistance	100M @50Vdc		
input resistance	3000~6000		
output resistance	2500~6000		
electrical interface	(4F)4-color silicon rubber flexible wires		
material of pressure membrane	316LSS		
response time(10%~90%)	1ms		
shock	20gRMS,(20~2000)Hz		
impact	100g,11ms		

## Features

- piezoresistive differential pressure sensor
- MEMS technology
- pressure range: 0~10kPa...2MPa
- gas or dilute liquid compatible with 316LSS

## Applications

- Industrial process control
- Wastewater and environmental engineering
- Liquid pressure system and switch
- Refrigeration equipment and air conditioner



Unit: (mm)

## Ordering code

GS21					OEM Pressure Sensor		
	Code					<b>Pressure range</b>	
	01					0...10kPa	
	02					0...20kPa	
	03					0...35kPa	
	04					0...70kPa	
	05					0...100kPa	
	06					0...200kPa	
	07					0...350kPa	
	08					0...700kPa	
	09					0...1MPa	
	10					0...2MPa	
	Code					<b>Pressure type</b>	
	D					differential pressure	
	Code					<b>Excitation</b>	
	I					1.5mA	
	V					10Vdc	
	Code					<b>Electrical interface</b>	
	4F					4-color silicon rubber wires	
<b>GS21</b>	07	D	V	4F	<b>Complete specification</b>		