

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)

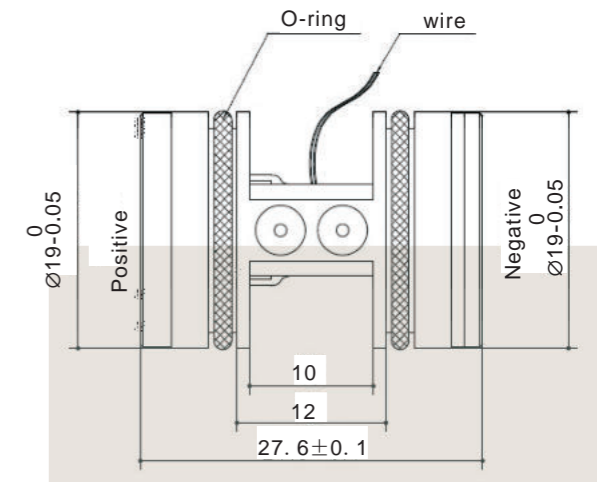
pressure range	0~10kPa...2MPa		
pressure type	differential pressure (D)		
overpressure	300%FS		
zero output	±2mV		
output signal	20kPa	50±10mV(typ.)	50±30mV(max.)
	35kPa	100±10mV(typ.)	100±30mV(max.)
excitation	1.5mA		10Vdc(option)
accuracy	0.25%FS(typ.)		0.3%FS(max.)
long-term stability	0.2%FS/year		
temp. coefficient of zero	20kPa	±1%FS@25°C(typ.)	±2%FS@25°C(max.)
	35kPa	±0.5%FS@25°C(typ.)	±1%FS@°C(max.)
temp. coefficient of span	20kPa	±1.5%FS@25°C(typ.)	±2%FS@25°C(max.)
	35kPa	±0.5%FS@25°C(typ.)	±1%FS@°C(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	Pressure range				
	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	Pressure type				
	D	differential pressure				
	Code	Excitation				
	I	1.5mA				
	V	10Vdc				
	Code	Electrical interface				
	4F	4-color silicon rubber wires				
GS21	07	D	V	4F	Complete specification	