PS162/PS312

Ceramic Capacitive OEM High and Low Pressure Sensing Modules



- Industrial Pumps & Compressors
- Refrigeration
- Heating, Ventilation and
- Air-conditioning (HVAC)
- Steam Sterilizers, Boilers & Dryers
- Test & Monitoring Equipment
- Process Controls
- Facility Management
- Mechanical Engineering
- Filter Restriction
- Fuel Cells
- Hydraulics Systems
- Process Controls
- Level Measurement
- Water Management
- Power Generators

Standard Full Scale Pressure Ranges

PS162: 0-200 mBar up to 0-60 Bar PS312: 0-50 mBar up to 0-20 Bar

Features

- Media Resistant
- Superior Long-Term Stability & Repeatability
- High Overpressure Capability
- Shock & Vibration Resistant





Description

Kavlico's OEM Pressure sensing modules utilize our more than 30-year field-proven ceramic capacitive sensing technology and are intended for high volume applications. Millions of Kavlico sensors are installed worldwide in a variety of industrial and transportation applications.

These RoHS compliant modules are equipped with a robust flush mounted ceramic sensing diaphragm that is compatible with most industrial fluids and gaseous media. The standard housing material is a Brass Spacer, and the standard electrical connection is 3 Isolated Wires 0.15 mm, 2 – 75mm Long. The module allows for easy integration and installation into final assemblies for a wide variety of applications.

With a 10-year minimum shelf life and a lifetime of millions of pressure cycles, Kavlico's ruggedly designed modules are made to last.







Technical Specifications

		PS	Module 31	L2	PS	Module 16	52	
Pressure ranges from 0 to	bar	0,05	up to	20	0,2	up to	60	
Proof pressure	bar	1.2	up to	60	2	up to	180	
Burst pressure	bar	2.4	up to	100	4	up to	240	
Reference	Absolute or gage							
Materials								
Wetted Parts	Ceramic Al203, gol	Ceramic Al203, gold coating on diaphragm						
Process Media	All gases and liquid	All gases and liquids compatible with ceramic Al203 and gold						
Electrical								
Supply Voltage	4.75 - 5.25 VDC							
Output Signal	1.0 -	1.0 - 4.0 VDC output			0.5 - 4.5 VDC output configuration			
at Zero		1.0 VDC			0.5 VDC			
at Full Span		4.0 VDC			4.5 VDC			
Supply current	Max. 2.2 mA at 5 V	'DC						
Load resistance	> 50 kΩ							
Protection								
Overvoltage	7 VDC							
EMI	Dependent upon o	ustomer pack	aging					
Response time	≤ 10 ms max. to 63	≤ 10 ms max. to 63 % of full scale pressure with step change on input						
Accuracy *)	0,5 % of span							
Non-linearity **)	typ. 0.1 % of span							
Hysteresis	0,2 % of span							
Non-repeatability	0,1 % of span							
1-year stability ***)	typ. 0.1 % of span							
*) Including non-linearity, hysteresis	, non-repeatability, zero	point and fu	II scale error (co	orresponds to e	error of meas	urement per IEC	61298-2)	
**) BFSL according to IEC 61298-2								
***) with reference conditions to ${\sf EN}$	N 61298-1							
Temperature								
Operating temperature range	-40°C to + 125°C							
TC zero	typ. ± 0.05 % / 10K							
TC span	typ. ± 0.05 % / 10K							
Conformity								
RoHS	according to 2002,	95/EC RoHS [Directive					
Electrical connection	3 isolated wires 0.	15 mm², 75 m	m long					
Color code of wires	RED – VSUPPLY, GI	REEN – OUTPU	JT, BLACK – GRO	DUND				
Service life	Min. 10 million pre	essure cycles f	ull scale					
Weight								
PS312	40 gram							



PS162

Before installation and operation, ensure that the appropriate pressure sensor has been selected in terms of pressure range, design and specific measuring conditions. Non-compliance can result in serious injury and/or damage to the equipment.

20 gram

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Don't see what you want?

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