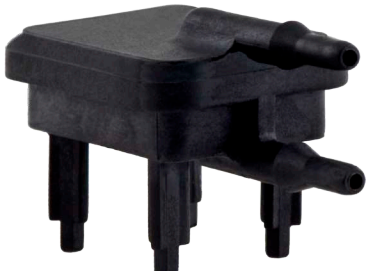
P992
Low Range Differential Pressure Sensor



Typical Applications

- Variable Air Volume Systems (VAV)
- Filter Pressure Monitoring
- Duct Air Flow
- Modulated Furnace Controls
- Combustion Air Flow
- Gaseous Leak Detection

Standard Full Scale Pressure Ranges

1, 2, 5, 10, ±1, ±2, ±5 inches of H20

Features

- Rugged Package
- Backward Compatible Mounting Configurations
- Amplified Temperature Compensated Linear Output
- No Position Sensitivity
- EMI/RFI & ESD Protected
- Frequency Output Option (Consult Factory)
- Superior Output Signal Stability

Description

The P992 series of pressure sensors incorporates a silicon capacitive sensing element in a compact package.

Using a 5 Vdc input, the sensors provide a 0.25 to 4.0 Vdc output proportional to pressure. Internal temperature compensation provides an accurate, easy to use device.

The innovative design eliminates mounting position effects found on other low pressure differential sensors currently available in the market.

Potsdamer Str. 14, 32423 Minden, Germany
Tel: +49 571 3859-0 - Fax: +49 571 3859-119
Email: info@kavlico.de

235 E. Main St., Suite 102A, Northville, MI 48167, USA
Tel: +1 (248) 465-0815 - Fax: +1 (248) 465-0810
Email: pressure.sensors@kavlico.com

www.kavlico.com

Technical Specifications

Note: Performance Specifications with 5 Vdc supply at 25°C

Differential Pressure Ranges (inches of H_2O):	1, 2, 5, 10, ±1, ±2, and ±5
Proof Pressure:	1.0 PSI (either port)
Burst Pressure:	1.5 PSI (either port))
Supply Voltage:	5.0 ± 0.25 Vdc
Supply Current:	4mA Max.
Output Voltage (Ratiometric):	0.25 to 4.0 Vdc
Calibration Tolerance (at 5.0 Vdc supply and no load):	
Zero/Null Pressure:	0.25 Vdc ±60 mV
Span:	3.75 Vdc ±60 mV
Voltage Ratiometricity:	±1.5% of span Max. 4.75 to 5.25 Vdc supply
Total Error Band (10° to 40°C):	±2% of span Max. (±3% for 0-1" range)
Output Impedance:	100 Ω Max.
Service Life:	10,000,000 cycles Min.
Shock:	10 g's at 6ms duration
Vibration:	1 g from 20 Hz to 1200 Hz
Operating Temperature:	0°C to 60°C
Storage Temperature:	-40°C to +95°C
Humidity:	95% RH, non-condensing
Weight:	20 grams Max.
Electrical Termination:	
Option A & B:	3 solderable pins, tin plated
Option C:	Lead wires, 24 AWG, 12" long
Preferred Mounting Position:	None
Pressure Connection:	1/8" diameter tube fitting with barb for 3/16 ID tubing
Recommended Interface Impedance:	25 kΩ Min. resistance between transducer output and ground, in parallel with 0.2 uF Max. capacitance
Over-voltage Protection:	16 Vdc
Reverse Polarity Protection:	-6 Vdc

How to Order

Use this diagram, working top to bottom and left to right to construct your model number. An example is shown below. Custom OEM options are also available.

P992 Low Range Differential Pressure Sensor

Pressure Range

1	0 - 1.0" H_2O
1B	±1" H_2O
2	0 - 2.0" H_2O
2B	±2" H_2O
5	0 - 5.0" H_2O
5B	±5" H_2O
10	0 - 10" H_2O

Electrical Termination

A	PCB Mount
B	3* Foot PCB (Compatible with Kavlico P892)
C	2 Foot PCB with lead wires (Compatible with Kavlico P592/P593/P792)

P992 - 5B - A

Example: P992 - 5B - A

Description: P992 Pressure Sensor, ±5" H2O, with PCB Mounting Option.

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.

Don't see what you want?

Call us at +1 (619) 710-2068 to customize this product to meet your application-specific needs!

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