P993

Low Range Differential Pressure PCB Mount 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, and ±5 inches of H20

Features

- Rugged PCB Mount Package
- Amplified Temperature Compensated Linear Output
- No Position Sensitivity
- EMI/RFI & ESD Protected
- Superior Output Signal Stability

Description

The P993 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.

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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:	3 solderable pins, tin plated
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

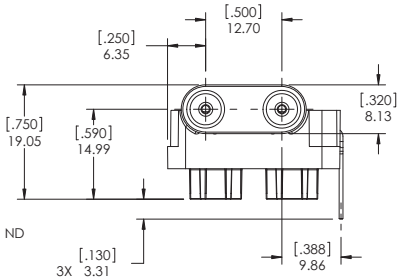
How to Order

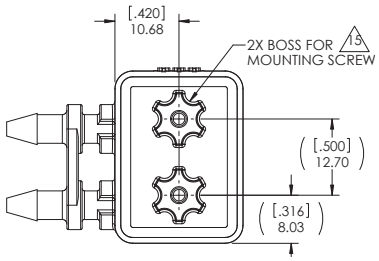
Use this diagram, working top to bottom and left to right to construct your model number. An example is shown below. Custom OEM options are also available.

P993 Low Range Differential Pressure PCB Mount 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

P993 - 5B
Example: P993 - 5B
Description: P993 Pressure Sensor, ±5" H_2O





Dimensions in: mm [inches]

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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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
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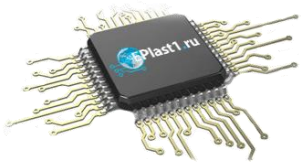

Как с нами связаться

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