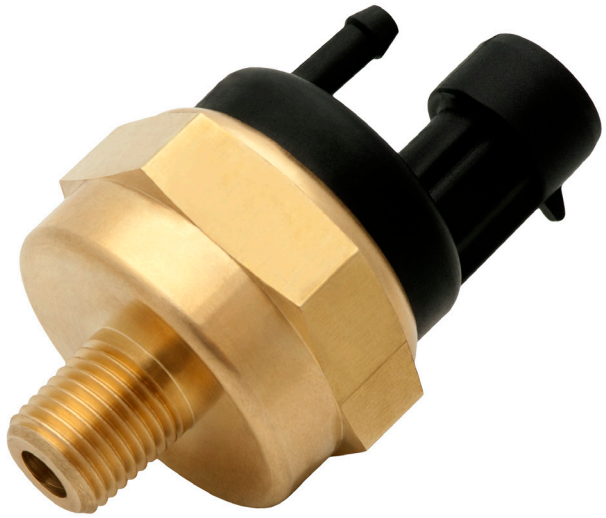
P356
Low Pressure Differential/Gage Transducers



Typical Applications

- Water Tower Levels
- Waste Water Systems
- Crankcase Over-Pressure
- Plant Automation Equipment
- Pneumatic Controls
- Filter Monitoring
- Leak Detection

Standard Full Scale Pressure Ranges

0-0.5, 0-1.0, 0-1.3, 0-3.0 and 0-5.0 PSIG or PSID
-0.5 to +0.5, -1 to +1 PSIG or PSID

Features

- Superior Long Term Stability
- Excellent Repeatability/Hysteresis
- EMI/RFI Protection
- Low Power Consumption
- Linear Amplified Output
- Temperature Compensated Over a Large Range
- Over-Voltage, Reverse Polarity & Short Circuit Protection
- Ten Million Cycle Life Expectancy
- Outstanding Shock & Vibration Performance
- Main Port Suitable for Dry & Wet Media

Description

The model P356 is based on Kavlico's field-proven ceramic capacitive technology. The brass housing surrounds a low-pressure transducer designed specifically for pressures between 0.5 PSI and 5 PSI. It is available in both gage (with a protective cap) and differential versions.

The P356 package has a built-in Metri-Pack 150, electrical connector, a ¼ - 18 NPT main pressure fitting and a ¼" hose fitting for the differential reference port (low side).

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A brand of CST CUSTOM SENSORS & TECHNOLOGIES

Technical Specifications

Note: Performance Specifications with 5v ± 0.002 Vdc supply at 25°C

Pressure Ranges:	0 – 0.5 PSI through 0 – 5.0 PSI Gage or Differential
Proof Pressure:	2x Hi-side (1 PSI low-side)
Burst Pressure:	3x Hi-side (3 PSI low-side)
Supply Voltage:	5.00 ±0.25 Vdc
Supply Current:	3 mA (Max)
Linearity Error:	±0.5% of Full Span Max.
Response Time:	15ms Max to 63% of F.S. Pressure with Step Change on Input.
Output Voltage	
Zero/Null Pressure:	0.50 ±0.08 Vdc
Full Pressure:	4.50 ±0.08 Vdc
Ratiometricity:	1.5% of F.S.
Total Error Band:	2.0% of Span (-20°C to +100°C)
Output Impedance:	< 100 Ω
Operating Temperature:	-30°C to +100°C (Seal Material Dependent)
Storage Temperature:	-40°C to +125°C
Service Life:	10 Million Full Pressure Cycles
Vibration:	10G's P-P Sinusoidal, 10 Hz – 2 kHz
Shock:	75 G's ½ Sine Wave
Stability:	±0.5% of Full Span over 1-Year
Humidity:	99% Non Condensing
Weight:	128 grams Max
Electrical Termination:	Metri-Pack 150, Electrical Connector
Preferred Mounting Position:	None
Pressure Connection:	¼-18 NPT and ¼ Tube (low-side)
Output Load:	>25k Ω
Over-Voltage Protection:	16 Vdc
Reverse Polarity Protection:	-5 Vdc
Main Housing Material:	CA360 Brass

How to Order

P356 Low Pressure Differential/Gage Transducers

Pressure Range

A	0 - 0.5 PSI
DA	±0.5 PSI
1	0 - 1.0 PSI
D1	±1.0 PSI
1.3	0 - 1.3 PSI
3	0 - 3.0 PSI
5	0 - 5.0 PSI

Reference

D	Differential
6	Gage

Seal Material

D	Fluorocarbon (Vitron)	-20 to + 125° C
E	Fluorosilicone	-40 to + 125° C

Pressure Connection

1	1/4 - 18 NPT (External Threads)

Electrical Connection

A	With Mating Connector, w/12", 18 AWG Leads
C	Without Mating Connector

P356 - 5 - G - E - 1 - A

Description: P356 Pressure Sensor, 0-5 PSI, Gage, Fluorosilicone Seal Material, 1/4 - 18 NPT Pressure Connection, with Mating Connector

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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