P356 Low Pressure Differential/Gage Transducers

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).

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

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-.5, 1.0 , 1.3 and 5.0 PSIG, PSID - 0.5 to + 0.5, -1 to +1 PSIG, PSID

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

Pressure Ranges:

Proof Pressure: Burst Pressure: Supply Voltage: Supply Current: Response Time:

Output Voltage: Zero/Null Pressure: Full Pressure: Ratiometricity: Total Error Band: Output Impedance: Operating Temperature: 0 – 0.5 PSI through 0 – 5.0 PSI Gage or Differential 2x Hi-side (1 PSI low-side) 3x Hi-side (3 PSI low-side) 5.00 ±0.25 Vdc 3 mA (Max) 15ms Max to 63% of F.S. Pressure with Step Change on Input.

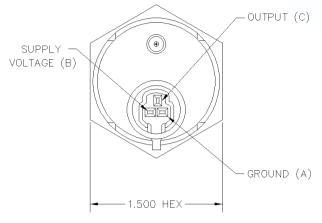
0.50 ±0.08 Vdc 4.50 ±0.08 Vdc 1.5% of F.S. ≤ 2.0% of Span (-20°C to + 100°C) < 100 Ω -30°C to + 100°C (Seal Material Dependent) Storage Temperature: Service Life: Vibration: Shock: Stability: Humidity: Weight: Electrical Termination: Preferred Mounting Position: Pressure Connection: Recommended Interface Impedance: Over-Voltage Protection: Reverse Polarity Protection: Material-Main housing: -40°C to + 125°C 10 Million Full Pressure Cycles 10G's P-P Sinusoidal, 10 Hz – 2 kHz 75 G's ½ Sine Wave ±0.5% of Full Span over 1-Year 99% Non Condensing 128 grams Max Metri-Pack 150, Electrical Connector None ¼-18 NPT and ¼ Tube (low-side)

Min. Load 25 kΩ 16 Vdc -5 Vdc CA360 Brass



P356 Low Pressure Differential/Gage Transducers

Outline Drawings



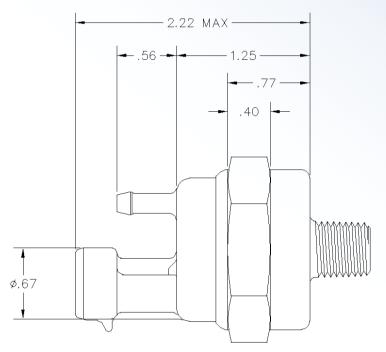
How to Order

P356 Low Pressure Differential/Gage Transducers					
Pressure Ranges					
	A DA 1 D1 1.3 3 5	0 – 0.5 PSI ± 0.5 PSI 0 – 1.0 PSI ± 1.0 PSI 0 – 1.3 PSI 0 – 3.0 PSI 0 – 5.0 PSI			
		Ref D G	erence Differential Gage		
			Seal Material		
			D E		uorocarbon (Viton) -20 to 125°C uorosilicone -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 Example: P356-5G-E1A

Contact Kavlico for accuracy options, custom

packaging, alternative pressure ranges, pressure connections or other OEM or application specific requirements.



Although possible applications for our product(s) and other statements are presented herein, Kavlico is not expert in the user's technical field and therefore does not warrant the suitability of its product(s) for the user's applications. Therefore, Kavlico will not accept any liability and provides no guarantee, responsibility, or warranties of any kind concerning the suitability or related to the use of its product(s) for the user's applications.

Additionally, Kavlico will not be liable and provides no guarantee, responsibility, or warranties of any kind concerning the suitability or related to the use of its product(s) for the life support market or to be used in life support systems, safety or emergency systems, critical care applications, human implantation, aviation, nuclear facilities or systems or any other applications where product failure could lead to injury to persons, loss of life, harm to the environment, or catastrophic property damage.

Kavlico warrants that its products will be free from defective materials and workmanship for a period of one (1) year from date of delivery to the original purchaser and that its products will conform to Kavlico's specifications or standards. Any product found to be defective will be replaced or repaired at the sole option of Kavlico.

Note: Kavlico reserves the right to change its specifications at any time without notice. Kavlico is not an expert in the customer's technical field and therefore does not warrant the suitability of its product for the application selected by the customer.

Kavlico products are manufactured or covered by one or more of the following patents: 1,799,995, 4,735,098, 4,924,702, 4967.071, 4,974,117, 5,020,377, 5,233,875, 5,275,054, 5,315,877, 5,329,819, 5,345,986, 5,349,867, 5,369,989, 5,415,036, 5,528,930, 5,540,086, 5,553,502, 5,576,251, 5,578,843, 5,656,780, 5,824,889, 5,907,278, 5,923,952, 5,929,498, 5,929,754, 5,935,189, 6.008.113, 6.041.658, 6.148.674, 6.178.829, 6.217,407, 6,297,733, 6,311,566, 6,351,132 B1, 6,404,184 B1, 6,495388 B1, 6,505,398 B2, 6,553,812 B2, 6,564,642 B2, 6,581,468 B2, 6,583,631 B2, 6,584,853 B2, 6,605,904 B1, 6,683,464 B2 with other U.S> and foreign patents pending.



14501 Princeton Avenue | Moorpark, CA 93021 Tel (805) 523-2000 | Fax (805) 523-7125 Web: www.kavlico.com | E-Mail: sales@kavlico.com