

P255

Stainless Steel Pressure Transducers

Description

The model P255 is based on Kavlico's field-proven ceramic capacitive technology with the latest state-of-the-art ASIC. Featuring a 316SS housing, the P255 is designed for general use wherever a rugged and reliable pressure transducer is required.

The P255 package has a built-in Metri-Pack 150, electrical connector and supports popular process connection threads. The P255 is offered with a variety of seal materials and is suitable for many diverse applications. Specifically intended for OEM applications, the P255 delivers a cost effective solution without compromising performance or reliability.

Features

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

Applications

- Steam Sterilizers
- Gasoline & Diesel Engines
- Natural Gas & CNG Engines
- Agricultural Chemical Equipment
- Hydraulic Systems
- Level Measurement
- Test Equipment
- Injection Molding
- Coolant Pressure
- Industrial Compressors



Standard Full Scale Pressure Ranges

0-15, 20, 30, 50, 75, 100, 150, 200, 300, 500, 750, and 1000 PSIA, PSIG, PSIS

Technical Specifications

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

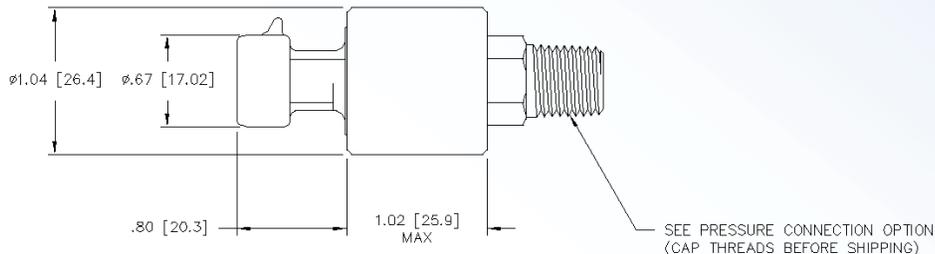
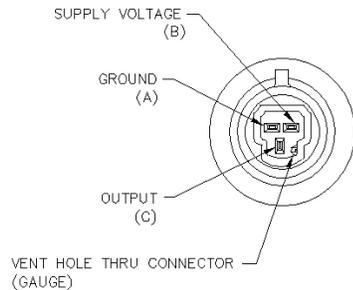
Pressure Ranges:	0 – 15 PSI through 0 – 1,000 PSI Absolute, Gage or Sealed Gage	Output Impedance:	< 100 Ω
Proof Pressure:	5x (FSO) (15 through 75 PSI) 3x (FSO) (100 through 500 PSI) 2x (FSO) (750 and 1,000 PSI)	Operating Temperature:	-40°C to +125°C (Seal Material Dependant)
Burst Pressure:	1,000 (15 through 75 PSI) 2,000 PSI (100 through 1,000 PSI)	Storage Temperature:	-40°C to +135°C
Supply Voltage:	4.50 Vdc to 5.50 Vdc	Service Life:	10 Million Full Pressure Cycles
Supply Current:	5 mA (Max)	Vibration:	10G P-P Sinusoidal, from 10-2000Hz
Response Time:	15ms Max to 63% of F.S. Pressure with Step Change on Input	Shock:	75 G ½ Sine Wave
Output Voltage:		Stability:	±0.5% of Full Span over 1-Year
Zero/Null Pressure:	0.50 ±0.08 Vdc	Weight:	90 grams (Max)
Full Pressure:	4.50 ±0.08 Vdc	Electrical Termination:	Packard Electric Metri-Pack 150 Series
Ratiometricity:	±0.5% of Span	Pressure Connection:	See "How to Order"
Total Error Band:	2.0% of Span (-20°C to +100°C)	Output Load:	>25k Ω
		Over-Voltage Protection:	16 Vdc
		Reverse Polarity Protection:	-5 Vdc
		Material - Main Housing:	316 Stainless Steel



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Outline Drawings



How to Order

P255 Pressure Transducer

Pressure Ranges

15	0 – 15 PSI
20	0 – 20 PSI
30	0 – 30 PSI
50	0 – 50 PSI
75	0 – 75 PSI
100	0 – 100 PSI
150	0 – 150 PSI
200	0 – 200 PSI
300	0 – 300 PSI
500	0 – 500 PSI
750	0 – 750 PSI
1000	0 – 1000 PSI

Reference

A	Absolute
G	Gage
S	Sealed Gage

Seal Material

B	Nitrile	-40 to +121°C
C	Neoprene	-34 to +107°C
D	Fluorocarbon	-20 to +125°C
E	Fluorosilicone	-40 to +125°C
F	Ethylene Propylene	-40 to +121°C

Pressure Connection

1	1/4-18 NPT (External Threads)
2	3/8-24 UNF-2A (Male)
3	3/8-24 UNF-2B (Female)
4	1/8-27 NPT

Electrical Connection

A	With Mating Connector, w/12", 18 AWG Leads
C	Metri-Pack 150 Series Connector

P255 500 S F 1 A

Example: P255-500S-FIA (500 PSIS (Sealed Gage), with Ethylene Propylene Seal Material, 1/4-NPT Pressure Connection, and Mating Connector)

Contact Kavlico for accuracy options, custom packaging, alternative pressure ranges, pressure connections or other OEM or application specific requirements.

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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.

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