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 fieldproven 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).

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

E-MAIL:szss20@163.co



/ TEL:0755-83376549 FAX:0755-83376182 E-MAIL:szss20@163.com

Technical Specifications

......

Note: Performance Specifications with $5v \pm 0.002$ Vdc supply at 25° C

	11.5
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 1/2 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:	
Pressure Connection:	1/4-18 NPT and 1/4 Tube (low-side)
Output Load:	>25 k Ω
Over-Voltage Protection:	16 Vdc
Reverse Polarity Protection:	-5 Vdc
Main Housing Material:	CA360 Brass

How to Order

ic.co

P356 Low Pressure Differential/Gage Transducers						
Pres	Pressure Range					
DA : 1 (D1 : 1.3 (3 (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					
	Reference					
	D	Differential				
	6	6 Gage				
		Sea	al Ma	aterial		
		D		procarbon (Vitron)		
		E		prosilicone	-40 to + 125° C	
		Pressure Connection				
				1/4 - 18 NPT (Exter	nal Threads)	
			Electrical Connecti	on		
		A With Mating Connector,				
				w/12", 18 AWG C Without Mating		
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!

Warning: The product information contained in this catalogue is given purely as information and does not constitute a representation, warranty or any form of contractual commitment. Kavlico reserve the right to modify their products without notice. It is imperative that we should be consulted over any particular use or application of our products and it is the responsibility of the buyer to establish, particularly through all the appropriate tests, that the product is suitable for the use or application. Under no circumstances will our warranty apply, nor shall we be held responsible for any application (such as any modification, addition, deletion, use in conjunction with other electrical or electronic components, circuits or assemblies, or any other unsuitable material or substance) which has not been expressly agreed by us prior to the sale of our products.

© 2013 Kavlico. All rights reserved.

Potsdamer Str. 14, 32423 Minden, Germany Tel: +49 571 3859-0 - Fax: +49 571 3859-119 Email: info@kavlico.de SUNSTAR自动化 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 A brand of COST CUSTOM SENSORS & TECHNOLOGIES

www.kavlico.com