

P4055/P4056 ***Pressure Transducers***

Typical Applications

- Pumps & Compressors
- Process Controls
- Filter Restriction
- Oil and Fuel Pressures
- Water Management
- Level Measurement
- Test & Monitoring Equipment

Standard Full Scale Pressure Ranges

0-3 through 0-300 PSI

0-200 mBar through 0-20 Bar

Absolute, Gage, or Sealed Gage

Features

- Small Size
- Absolute, Gage or Sealed Gage Pressure References
- Packard Metri-Pack 150 Electrical Connector Standard
- 0.5 to 4.5 Vdc Output
- High Vibration Tolerance
- Superior EMI/RFI Performance
- Available with NPT, G1/4, M10, & M12 Pressure Ports
- Temperature Compensated
- RoHS Compliant



Description

The P4055 and P4056 Pressure Transducers incorporate a back-side PRT configuration that is compatible with many types of liquid and gaseous media.

This flexible product family can be supplied with a built in Metri-Pack 150 electrical connector. The small sensor size is ideal for high volume applications.

Pressure ranges may be customized for OEM applications.

The P4055 is specified with pressure ranges measured in PSI and the P4056 pressure ranges are measured in Bar.

Technical Specifications

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

Pressure Ranges:	See "How To Order"
Proof Pressure:	2x (F.S. Pressure) (P ≤ 175 PSI [12 Bar]) 1.5x (F.S. Pressure) (P > 175 PSI [12 Bar])
Burst Pressure:	3x (F.S. Pressure) (P ≤ 175 PSI [12 Bar]) 2x (F.S. Pressure) (P > 175 PSI [12 Bar])
Supply Voltage:	5.0 ± .5 Vdc
Supply Current:	< 5mA
Response Time:	< 10mS to 63% of Output Change with Step Change in Pressure
Normal Output Voltage:	
Zero/Null Pressure:	0.5 Vdc
Full Pressure:	4.5 Vdc
Total Error Band:	2.0% of Span (-20°C to +100°C)
Output Impedance:	< 100
Operating Temperature:	-40°C to +125°C
Storage Temperature:	-40°C to +125°C
Service Life:	10 Million Full Pressure Cycles
Vibration:	10G's P-P Sinusoidal, from 10 - 2000 Hz
Shock:	75 G's ½ Sine Wave
Ingress Protection:	IP67
Weight:	40 grams
Electrical Termination:	See "How to Order"
Pressure Connection:	See "How to Order"
Recommended Interface Impedance:	Min. Load 25 k
Over-Voltage Protection:	16 Vdc
Reverse Polarity Protection:	-16 Vdc
Material - Main Housing:	Brass

How to Order

P4055 Pressure Transducer		P4056 Pressure Transducer	
Pressure Range			
3	0 - 3 PSI (Not available in Absolute)	P2	0 - 200 mBar (Not available in Absolute)
5	0 - 5 PSI (Not available in Absolute)	P3	0 - 300 mBar (Not available in Absolute)
15	0 - 15PSI	1	0 - 1 BAR
30	0 - 30 PSI	2	0 - 2 BAR
50	0 - 50 PSI	4	0 - 4 BAR
75	0 - 75 PSI	5	0 - 5 BAR
100	0 - 100 PSI	7	0 - 7 BAR
150	0 - 150 PSI	10	0 - 10 BAR
200	0 - 200 PSI	15	0 - 15 BAR
300	0 - 300 PSI	20	0 - 20 BAR
Reference			
A	Absolute		
G	Gage		
S	Sealed Gage		
Internal Media Seal Material*			
E	Fluorosilicone		
*Consult factory about additional seal material options.			
Pressure Connection (Port)			
1	1/4 - 18 NPT		
2	M12x1.5		
3	M10x1		
4	1/8 - 27 NPT		
5	G1/4 - Male		
6	M14X1.5		
Built-in Electrical Connector			
A	Packard Connector with Mating Connector and 12" Leads		
C	Packard Connector		

P4055 75 - A - E - 1 - A

Example: P4055 - 75 - A - E - 1 - A

Description: P4055 Pressure Transducer, 0 - 75 PSI, Absolute, Fluorosilicone Seal, 1/4 - 18 NPT Pressure Connection, Packard Connector 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.

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