

Description

The P4055 Pressure Transducer 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.



Features

- Small Size
- Absolute, Gage or Sealed Gage Pressure References

Sensata

Technologies

- 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

Applications

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



Pressure Ranges	0 to 3 up to 0 to 300 PSI
Electrical Connection	Packard Electric Metri-Pack 150 Series
Pressure Connection	1/4-18 NPT (external), 1/8-27 NPT (external) - for more options see how to order
Housing Material	Brass
Output Signal	0.5 - 4.5 VDC



Pressure Ranges

From 0 to	PSI	3	5	15	30	50	75	100	150	200	300
Proof Pressure	PSI	6	10	30	60	10	150	200	300	300	450
Burst Pressure	PSI	9	15	45	90	150	225	300	450	400	600

Physical

Operating Life Cycle	min. 1 million full pressure cycles over the full range
Vibration Resistance	10 G's peak to peak sinusoidal, from 20 to 2000 Hz
Shock Resistance	75 G's ½ sine wave
Drop Test	1m onto concrete surface
Weight	\leq 50 grams
Ingress Protection	IP67
Media Temperature	-40°C to + 125°C
Environmental Temperature	-40°C to + 125°C
Storage Temperature	-40°C to + 125°C
Media	All class II fluids and gases compatible with brass and fluorosilicone

Performance

Total Error Band1+/-2% of span (-20 \le T \le 100° C) +/-3% of span (T < -20° C, T < 100° C)	
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1. Including accuracy, calibration, temperature, non-linearity, hysteresis, non-repeatability, error

Electrical

Output Signal	0.54.5 VDC ratiometric
Operating Supply Signal	5 VDC ± 5%
Power Consumption	\leq 25 mW
Overvoltage Protection	16 VDC
Short-circuit Proofness	Yes ²
Insulation Voltage	500 VDC
Reverse Polarity Protection	Yes ³
Impedance	Min load 25 k $oldsymbol{\Omega}$
Response Time	\leq 10 ms max. to 63% of full scale pressure with step change on input

2. for min. 3 intervals at 5 minutes each

3. for min. 10 seconds on assigned pins



Packard (m	etri-pack 150) Pi	n Call Outs					
Output	Pin 1	Pin 2	Pin 3				
0.5-4.5 VDC ratiometric	GND	Vsup	Vout				







P4055 Pressure Sensor, 0 - 15 PSI Absolute, Fluorosolicone, Internal Seal, 1/4 18 NPT, Pressure Connection with Packard, Metri-Pack 150 Built-in Connector

	P4055 — 15	A – I	E 1	Α	
Family	<u> </u>	Γ –			
P4055					
Pressure Ranges (PSI)					
3: 0 - 3 PSI 5: 0 - 5 PSI 10: 0 - 10 PSI 15: 0 - 15 PSI 30: 0 - 30 PSI 50: 0 - 55 PSI 100: 0 - 100 PSI 150: 0 - 150 PSI 150: 0 - 150 PSI 200: 0 - 200 PSI 300: 0 - 300 PSI					
Reference		-			
A: Absolute G: Gauge S: Sealed Gauge					
Internal Seal Material					
E: Fluorosilicone					
Pressure Connection (Port)					
1: 1/4-18 NPT 2: M12 X 1.5-6g PER ISO 6149 3: M10 X 1-6g PER ISO 6149 4: 1/8-27 NPTF 5: STUD END PER DIN 3852-A-G1/4 (sealing by washe 6: M14 X 1.5-6g PER ISO 6149 7: STUD END PER DIN 3852-C-R1/4 (1/4-19 BSPT) 8: 7/16-20UNF-2A 9: M16 X 1.5-6g 10: STUD END PER DIN 3852-C-R1/8 (1/8-28 BSPT)	er, not supplied)				
Built-in Connector					
A: Metripack 150 with mating connector 12" leads					

A: Metripack 150 with mating connector 12" leads C: Metripack 150 without mating connector



AGENCY APPROVALS & CERTIFICATIONS



2002/95/EC RoHS Directive

Pressure equipment directive 97/23/EC EMC directive 2004/108/EEC, EN 61 326 Emission (Group 1, Class B) and Immunity (industrial locations), EMI, ESD protected

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