

PMD Series

The PMD Series is a thru-hole mountable pressure monitoring device suitable for low to medium pressure applications.

COMPANY: Merit Sensor is a leader in piezoresistive pressure sensing and partners with clients to create high performing solutions for a variety of applications and industries.

SENTIUM: Merit Sensor products incorporate a proprietary Sentium® technology developed to provide a best-in-class operating temperature range and superior stability.

TECHNOLOGY: Merit Sensor utilizes a piezoresistive Wheatstone bridge in a design that anodically bonds glass to a chemically etched silicon diaphragm. All products are RoHS compliant.

CAPABILITIES: Merit Sensor designs, engineers, fabricates, dices, assembles, and tests products from a state-of-the-art facility near Salt Lake City, Utah.

FEATURES

Range 5 to 60 psi (.34 to 4.1 bar; 34.5 to 414 KPa)

Type Absolute, gage

Media No Gel Coating (standard): Clean dry air and

non-corrosive gas

With Silicone Gel coating: Non-corrosive gas,

but also for use in applications where

condensation can occur

Packaging Trays

Customization Sensitivity, resistance, bridge, constraint, etc.

BENEFITS

Performance Enjoy best-in-class performance due to Merit's

proprietary Sentium technology.

Cost Save money over time with high-performing die

Security Feel confident doing business with an experienced

company backed by a solid parent company

(NASDAQ: MMSI)

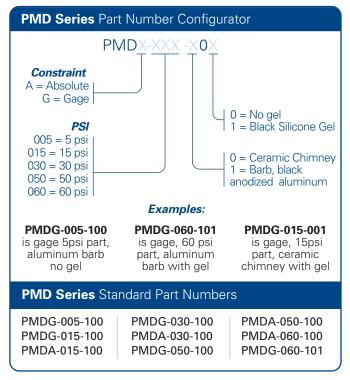
Speed Get to market quickly with creative and

flexible solutions.

Service Experience prompt, personal, and

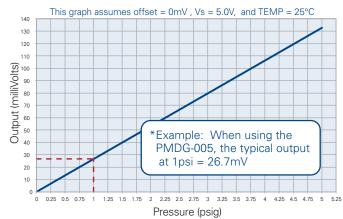
professional support.





Typical Transfer Function (Sensor pn PMDG-005)

 $Vout = (26.7 * P) + Offset \pm Error$

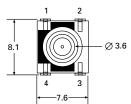




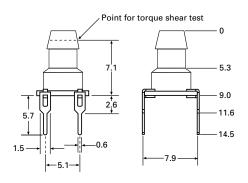
SPECIFICATIONS

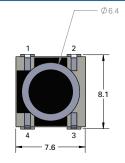
Parameter	Minimum	Typical	Maximum	Units	Notes
Electrical & Environmental	•	•	·	•	
Excitation (In)	1.5	5	15	V	Maximum: 3 mA
Impedance	4000	5000	6000	Ω	
Operating Temperature	-40		125	°C	
Storage Temperature	-55		125	°C	
Weight		0.486		Grams	Barb and Gel
		0.434		Grams	Chimney and Gel
Mechanical					
Barb Torque Shear	22			lbf	See barb drawing
Barb Torque Shear – Post Exposure	16			lbf	60°C for 7 days @ 95% RH
Performance					
Offset	-10	0	10	mV/V	Zero pressure; gage only; @25°C
(Standard)	-0.25	0	0.25	% FSO	Best Fit Straight Line; @25°C
Non-linearity (50 psi only)	-0.15	0	0.15	% FSO	Best Fit Straight Line; @25°C
Pressure Hysteresis	-0.1	0	0.1	% FSO	@25°C
Temp Coeff – Zero	-25	0	25	μV/V/°C	-40°C to 85°C
Temp Coeff – Resistance	2500	3100	3500	PPM/°C	-40°C to 85°C
Temp Coeff – Sensitivity	-1500	-2000	-2500	PPM/°C	-40°C to 85°C
Thermal Hysteresis	-0.1	0	0.1	% FSO	Zero pressure
Long-Term Stability	-0.1	0	0.1	% FSO	
Burst Pressure	5X				
Full-Scale Output (@ 5 volts	excitation)				
5 psi (0.34 bar; 34.5 KPa)	107	133	160	mV	
15 psi (1 bar; 103 KPa)	120	150	180	mV	Additional outputs available upon request
30 psi (2.1 bar; 207 KPa)	128	160	192	mV	
50 psi (3.5 bar; 345 KPa)	107	133	160	mV	
60 psi (4.1 bar; 414 Kpa)	128	160	192	mV	

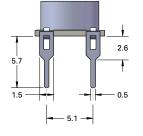
DIMENSIONS AND ELECTRICAL (millimeters)

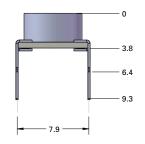












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