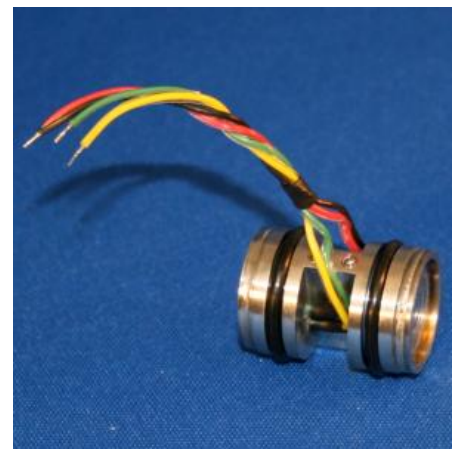


MLDPSM75 Wet/Wet Differential Pressure Sensor Module

Product Description & Operation

The **MLDPSM75** is a stainless steel isolated true wet/wet delta pressure sensor module. The integral silicon pressure die is isolated through the use of silicon oil and stainless diaphragms. All parts in contact with the wetted media are made from 316L stainless steel. The DPSM is designed for rugged OEM applications where performance, stability and accuracy are demanded at a reasonable price. The sensor module is constructed in a standard 3/4" static O-ring format to ease design into the target transmitter assembly. The standard configuration of the sensor module is in its basic uncompensated mode. The sensor with external electronics such as a sensor specific correction ASIC or microcontroller can be compensated to better than +/-1% TEB.



Applications

- Pump and filter pressure drops
- Corrosive fluids
- Tank level
- Flow measurement & control

Standard Ranges

0 to 5	psid
0 to 30	psid
0 to 50	psid
0 to 100	psid
0 to 300	psid
0 to 500	psid

Features

- All welded construction
- Low cost
- All stainless parts
- Rugged
- Compensatable to 1% TEB
- Standard 3/4" O-ring static seal mounting
- Based on stable piezoresistive pressure sensor die

MLDPSM75

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MLDPSM75 Performance Specifications

Parameter	Value	Units	Notes
Excitation(input)	5 to 15	V	1mA(nom);3mA (max)
Impedance(input/output)	5000+/-1000	Ω	Others available
Offset	0+/-12	mV/V	@zero psid
Linearity	+/-0.2	%FSO	BSFL(best fit straight line)
TCZ	30	$\mu\text{V/V}/^\circ\text{C}$	0 to 70 $^\circ\text{C}$
TCR	0.24	%/ $^\circ\text{C}$	0 to 70 $^\circ\text{C}$
TCS	-0.20	%FSO/ $^\circ\text{C}$	0 to 70 $^\circ\text{C}$
Insulation resistance	75	Meg Ohm	Between case and any lead
Thermal hysteresis	0+/-0.25	%FSO	@ zero psid
Long and Term stability	0+/-0.25	%FSO	Per year
Over pressure	3X	Full scale pressure	Either side
Line pressure	1000	psi	
Operating temperature	-30 to 100	$^\circ\text{C}$	
Storage temperature	-40 to 100	$^\circ\text{C}$	
Vibration(20 to 5000 Hz)	15	g	
Endurance	>1M	FS cycles	

Mechanical

Case & diaphragm material	304/316SS
Oil fill type	Silicon
Weight	40 grams

Notes:

All performance parameters measured 1.0 mA constant current excitation @25 $^\circ\text{C}$ except where noted.

Ordering Information

MLDPSM75 Product Model	xxxxx	
005PD	= 0 to 5	psid
030PD	= 0 to 30	psid
050PD	= 0 to 50	psid
100PD	= 0 to 100	psid
300PD	= 0 to 300	psid
500PD	= 0 to 500	psid

