

Model MLP811 Light Industrial /General Purpose Pressure Transducer

Measurement Ltd model **MLP811** Pressure Transducer was developed for low end industrial and general purpose pressure measurements. The design is based on a simple low cost concept but incorporates state of the art digital temperature correction of a micro-machined silicon pressure die for high end accuracy and stability. The design offers a very cost effective solution for general purpose and light industrial pressure measurement environments. The wetted parts are 316 SS, Silicon, Pyrex and RTV/epoxy.



- Gauge and Absolute Pressures
- 1 % Total Error Band
- 5 Volt DC Supply
- 0.5 to 4.5 Output (ratio-metric)
- ASIC Temperature Compensated
- Small Size
- Silicon on Stainless
- Light Weight

Sample Applications:

- Process Automation & Control
- Level Measurement
- Test and Measurement Equipment
- Factory Automation
- Energy Management

Specifications

Supply: 4.5 to 5.5 VDC

Output: 0.5 to 4.5 (ratio-metric to supply)

Supply Current: 5 mA (max)

Output Impedance: <100 ohms

Total Error Band: 1 % FSO

Electrical Connection: Cable

Compensated Range: 0 to 55 deg C

Operating Range: -40 to 80 deg C

Proof Pressure: 2X full scale

Burst Pressure: 3X full scale

Wetted Parts: 316 SS, Silicon, Pyrex and RTV/epoxy

Process Fitting: 1/4" npt (others available)

Model MLP811

Light Industrial /General Purpose Pressure Transducer

Performance (specified @ 25 deg C, 5 .00 VDC supply)	
Supply Voltage	5 +/- 0.5 VDC
Output	0.5 to 4.5 VDC (ratio-metric with supply)
Supply Current	< 5 mA
Error	+/- 1.00 FS TEB
Zero Offset	0.50 VDC
Full Scale Output	4.50 VDC
Compensated Temperature Range	0 to 85 deg C
Operating Temperature Range	-40 to 85 deg C
Storage Temperature Range	-40 to 85 deg C
Burst Pressure	3 X Full Scale
Proof Pressure	3 X Full Scale
Reliability	
Stability (typical)	<+/- .30% full scale per year
Pressure Cycles	10 million full scale cycles
Vibration	10 to 2000 Hz. 10g 3 axes sine wave. 100 hours
Weight	30 Grams (Less cable)
Humidity	85°C 85% RH

MLP811 Product Model	xxxx Pressure Range	x Reference	x Pressure Port	x Connection Option	x Custom Dash Configuration
	0005=0.5 psi	A=Absolute	1=1/4" npt	1=12" cable	xxx consult factory
	0015=1.5 psi	G=Gauge	2=1/8" npt	2=24" cable	
	0150=15 psi	S=Sealed	3=7/17-20 UNF	3=36" cable	
	0500=50 psi			4=72" cable	
	1000=100 psi			5=96" cable	
	1500=150 psi				

