



MSP5100 Pressure Sensor

CE compliant per the following specifications

- EN55022 Emissions Class A & B
- IEC61000-4-2 Electrostatic Discharge Immunity (6kV contact/8kV air)
- IEC61000-4-3 EM Field Immunity (30V/m)
- IEC61000-4-4 Electrical Fast Transient Immunity (1kV)
- IEC61000-4-5 Surge (1kV)
- IEC61000-4-6 Conducted Immunity (10V)
- IEC61000-4-9 Pulsed Magnetic Field Immunity (100A/m)
- Automotive EM field immunity 100V/m 80 MHz to 1 GHz

environmental performance

Operating Temp Range	-40 to 125 °C
	-40 to +85 °C (4-20 mA)
Compensated Temp Range	-20 to 85 °C
Total Error Band	+/- 1% FS over compensated range (+/- 1.5% typical over extended range contact factory)
Vibration	20G at 20 to 200 Hz
Shock	200 G / 11ms

ordering information

Model	Output	Connection	Options	Pressure Port	Pressure Range/Units	Pressure Reference
M51	3 = 0.5 to 4.5 V 4 = 1 to 5 V 5 = 4 to 20 mA	1 = 2 ft cable 4 = Packard Metripak 150 5 = Bendix 6 = Min-Hirschman DIN 43650 Ind C	00000 W= 316L wetted material Fill options alphabetically from left	2 = 1/4 BSP 4 = 7/16-20 UNF Male,O-ring 5 = 1/4-18 NPT P = 7/16-20 female	050P= 50 psi 3.5B= 3.5 Bar 100P= 100 psi 007B= 7 Bar 200P= 200 psi 010B= 10 Bar 300P= 300 psi 020B= 20 Bar 500P= 500 psi 035B= 35 Bar 01KP= 1000 psi 070B= 70 Bar 03KP= 3000 psi 200B= 200 Bar 05KP= 5000 psi 350B= 350 Bar 10KP= 10,000 psi 700B= 700 Bar	G = Gauge S = Sealed
	X = Special Connector	X = Special Connector	1nnnn = Custom Drawing Number	X = Special Port		

Consult factory for special options or non-standard part number

Example: M5131-000005-300PG = 5 V power with 0.5 to 4.5 Vout (ratiometric) and 2 ft cable. No options, 1/4 NPT pressure port rated at 100 psi gauge
M515X-12345P-010BG = 4-20 mA current loop, with a custom pressure port to drawing 12345 (consult factory). 7/16 pressure port, 10 bar gauge

output options

Code	Output	Supply
3	0.5 to 4.5 V at 5V (ratiometric)	4.75 to 5.25 V
4	1 to 5 V	8 - 30V
5	4 - 20 mA	9 - 30V

mechanical dimensions

Pin-out per industry standards:

Pin A: Return
Pin B: +Excitation
Pin C: +Output

