

PERFORMANCE SPECIFICATIONS

Ambient Temperature: 25°C (unless otherwise specified)

PARAMETERS	MIN	TYP	MAX	UNITS	NOTES
Accuracy (combined non linearity, hysteresis, and repeatability)	-0.25		0.25	%F.S.	BFSL
Isolation, Body to any Lead	100			MΩ	@500VDC
Dielectric Strength			2	mA	@500VAC, 1min
Pressure Cycles	1.00E+6			0~FS Cycles	
Proof Pressure	2X			Rated	
Burst Pressure	5X		20k psi	Rated	Whichever is less
Long Term Stability (1 year)	-0.25		0.25	%F.S.	
Total Error Band (17-4PH)	-1.0		1.0	%F.S.	Within CT
Total Error Band (316L, ≤3k psi)	-1.5		1.5	%F.S.	Within CT
Total Error Band (316L, >3k psi)	-2.0		2.0	%F.S.	Within CT
Compensated Temperature (CT)	-20		+85	°C	
Operating Temperature	-40		+85	°C	
Storage Temperature	-40		+90	°C	
Load Resistance (R _L)		R _L > 100k		Ω	Voltage Output
Load Resistance (R _L)		< (Supply Voltage -12V) / 0.02A		Ω	Current Output
Current Consumption			30	mA	Voltage Output
Rise Time (10% to 90%)	<2ms (Voltage Output); <3ms (Current Output); Without Snubber				
Wetted Material	17-4PH or 316L Stainless Steel Port, 316L Stainless Steel Snubber				
Weather Proof	IP67				
Bandwidth	DC to 1KHz (Typical)				
Shock	50g, 11msec Half Sine Shock per MIL-STD-202G, Method 213B, Condition A				
Vibration	±20g, MIL-STD-810C, Procedure 514.2, Fig 514.2-2, Curve L				

For custom configurations, consult factory.

Notes

Compensated Temperature: The temperature range over which the product will produce an output proportional to pressure within the specified performance limits.

Operating Temperature: The temperature range over which the product will produce an output proportional to pressure but may not remain within the specified performance limits.

Storage Temperature: The temperature range over which the product can be stored safely in occasions without pressure applied or power input and remains rated performance. Beyond this temperature range may cause permanent damage to the product.

All configurations are built with supply voltage reverse and output short-circuit protections.

CE Compliance

EN 55022 Emissions Class A & B

IEC 61000-4-2 Electrostatic Discharge Immunity (4kV contact/8kV air)

IEC 61000-4-3 Radiated, Radio-Frequency Electromagnetic Field Immunity (10V/m, 80M-1GHz)

IEC 61000-4-4 Electrical Fast Transient Immunity (1kV)

IEC 61000-4-5 Surge Immunity (V+ to V-: ±1KV/42Ω; L to Case: ±1KV/42Ω; V- to V₀: ±1KV/42Ω)

IEC 61000-4-6 Immunity to Conducted Disturbances Induced by Radio Frequency Fields (150K~80MHz, 3V level)

For all CE compliance tests, max allowed output deviation ±1.5 %F.S.

M5800

Pressure Transducer With Rotatable Display

Display Specification

Digits Display	Within range: -XXX to XXXX Overload(>110%FS): OP
Type	7 Segment Blue LED
Polarity	Automatic (-) Display
Display Accuracy (excluding transducer output)	+/-0.25% of Rdg +/- 1 Count
Character Size	0.24" height
Viewing Direction	Rotatable
Zero button	Tare affecting only display

Display Digital Resolution

PRESSURE UNIT	PRESSURE RANGE	DISPLAY DIGIT	DECIMAL PLACE	NEGATIVE PRESSURE	EXAMPLE
PSI	>050P & <100P	3	1	"-" precedes number	01.0~99.9, -13.7, (100.0 indicate 100PSI)
PSI	>100P & <01KP	3	NA	"-" precedes number	101~999, -013
PSI	>01KP & <10KP	4	NA	"-" precedes number	1000~9999, -013
KPSI	>10KP & <15KP	4	2	NA	10.00~15.00
BAR	>3.5B & <01KB	4	1	"-" precedes number	003.5~700.0, -000.1, (1000 indicate 01KB)

DIMENSIONS [mm]

