## 1200 Series / 1600 Series -OEM Transducers Featuring Exceptional Proof Pressure and Stability Specifications

- Gauge, Vacuum, and Compound Pressure Models
- General Purpose and Wash down Enclosures
- High Proof Pressure Achieved by Thicker Diaphragm Construction
- Voltage and Current Output Models

The 1200 Series features stability and toughness via its CVD and ASIC design coupled with a thicker diaphragm. The thicker diaphragm enables these sensors to survive most pressure spikes caused by pump ripple, solenoid valves, etc. The 1600 Series extends the packaging options by providing an all welded stainless steel back end for demanding industrial applications. A modular design allows special ordering of fittings, electrical cables, etc. for OEM applications. The ASIC and CVD technology enables Gems to offer almost any output over any pressure range.

Spec	ific	ati	ons
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specifications		
nput Pressure Range	Vacuum to 400 bar (6000 psi)	
Proof Pressure	4 x Full Scale (FS) (<1% FS Zero Shift)	
	$\sim 35 \times FS < = 4 \text{ har } (60 \text{ psi});$	
Burst Pressure	20 v ES <=40 har (buu psi),	
	>5 x FS <= 400 bar (6000 psi)	
Fatigue Life	Designed for more than 100 million FS cycles	
Performance	2 24% FSA/olt	
Supply Voltage Sensitivity	0.01% FS/Volt	
Long Term Drift	0.2% FS/year (non-cumulative)	
Accuracy	0.5% FS typical	
Thermal Error	2.0% FS typical	
Compensated Temperature	s -20°C to 80°C (-5°F to 180°F) -40°C to 125°C (-40°F to 260°F) for elec. codes A, B, C, 1	
Operating Temperatures	-40°C to 125°C (-40°F to 260°F) for elec. codes 2, D, G, 3	
Operating romp		
	temperatures >100°C supply is limited to 24 VDC	
Zero Tolerance	1% of span	
Span Tolerance	1% of span	
Response Time	0.5 ms	
Mechanical Configuration	andering chart	
Pressure Port	see ordering chart 17-4 PH Stainless Steel	
Wetted Parts		
Electrical Connection	see ordering chart	
Enclosure	316 SS, 17-4 PH ss IP65 NEMA 4 for elec. codes A,B,C,D,G,1,2,3	
B11414441	IDOZ for alan codes F	
	upon for elect code "3" with flying leads	
	- t -invested b to 2000 D/	
Vibration	Dandom Vibration, VII III COU IIC G. Log.	
	taking in any direction U USZ /0 10/9	
Acceleration		
	for 1 bar (15 psi) range debrassing logarity to 0.0007% FS/g for 400 bar (6000 psi) range.	
Ohaak	20g 11 ms per MIL-STD810E Method 510.411000001	
Shock	OF LIP (12 FT 16 FT Intrinsically Sale)	
Approvals	approx. 100 grams (additional; cable 75 g/m)	
Weight	where a second	



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Along with the superiority of the CVD strain gauge, Psibar® transducers incorporate components to leverage the sensing element's strength. The output is a product with a unique balance of performance and value unmatched in today's pressure sensing market.



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Specificatio	ns
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nput ,	400 har (6000 nsi)	
Pressure Range	Vacuum to 400 bar (6000 psi)	
T. I December	4 x Full Scale (FS) (<1% FS Zero Shift)	
	>35 x FS <= 4 bar (60 psi);	
	>20 x FS <=40 bar (600 psi); >5 x FS <= 400 bar (6000 psi)	
	Designed for more than 100 million FS cycles	
Fatigue Life	Designed for more than 120	
Performance Supply Voltage Sensitivity	0.01% FS/Volt	
Supply voltage densitivity	0.2% FS/year (non-cumulative)	
Long Term Drift	0.5% FS typical	
Accuracy	2 0% FS typical	
Thermal Error Compensated Temperatures	2000 / F9F to 190°F)	
Operating Temperatures	-20°C to 80°C (-3°F to 160°F) for elec. codes A, B, C, 1 -40°C to 125°C (-40°F to 260°F) for elec. codes 2, D, G, 3 -20°C to 80°C (-5°F to 180°F) for elec. code F temperatures >100°C supply is limited to 24 VDC	
	temperatures >100 0 supply	
Zero Tolerance	1% of span	
Span Tolerance	1% of span	
Response Time	0.5 ms	
Mechanical Configuration	see ordering chart	
Pressure Port	17-4 PH Stainless Steel	
Wetted Parts	see ordering chart	
Electrical Connection	010 CC 17 4 DH cc	
Enclosure	IP65 NEMA 4 for elec. codes A,B,B,B,B,B,B,B,B,B,B,B,B,B,B,B,B,B,B,B	
Vibration	per MIL-STD810E Method 514.4)	
Acceleration	for 1 bar (15 psi) range decreasing logarity	
Shock	to 0.0007% F5/g 101 400 bat 105 Method 516.4 Procedure I	
Approvals	or UP (12 FT 16 FT Intrinsically sale)	
Weight	approx. 100 grams (additional; cable 75 g/m)	



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