Spectre Sensors

Model 1000 General Purpose Pressure Transducer



- Eliminate Drift Fused Bond sensor technology for long-term stability
- Eliminate Noise Maximum RFI/EMI protection on every transducer
- Outputs 4-20mA, 0-5V & 0-10V custom outputs available
- Pressure ranges 0-10" WC to 0-30,000 PSI
- Accuracies to 0.1% BFSL
- Unparalleled long-term stability
- Temperature compensation at the sensor element.
- Custom designs available (contact factory)



Spectre's Model 1000 is specifically engineered to eliminate the two most common problems with pressure transducers, noise and drift. It's large, raw sensor output (10-70X that of a bonded foil strain gauge device), The long term stability of Model 1000 and standard RF!/EMI protection provide the most rugged and reliable transducer for industrial applications. Originally designed to withstand the rigorous testing requirements of defense and space applications, The Model 1000 offers aerospace performance to the industrial marketplace.

Performance @ 25℃ (77F)

Accuracy: <±0.5% BFSL (0.2% and 0.1% optional)

Stability (2 year): <±0.05% FS, typical

Over pressure protection: 2X Rated Pressure

Burst Pressure: 5X minimum Pressure Cycles: >50 Million

Temp. range: -40 to +100 $^{\circ}$ (-40 to + 212 $^{\circ}$)

Optional: -60 to +130℃ (-76 to +266年)

Temperature Accuracy: ±1℃ (±2年)

Environmental Data

Operating temp: -40 to +100℃ (-40 to +212℉)

(Optional to +275\, consult factory)

Storage temp: -50 to +125°C (-60 to +250°F) Compensated range: 0 to 50°C (-32 to +125°F)

Temp comp Zero: <±1.5% FS Temp comp Span: <±1.5% FS

Electrical Data

Excitation:

9-36 Vdc (4-20mA and 0-5 Vdc outputs)

13-36 Vdc (0-10 Vdc output)

Option C29: Maximum 29 Vdc excitation Current consumption: <5 mA (voltage outputs) Zero offset: <±.25% of FS - field adjustable

Span tolerance: <±1.0% of FS Output load: >10K Ohm

Physical data

Sensor wetted material: 17-4 PH stainless (optional:

316 stainless steel)

Pressure connection: 1/4 male NPT, SAE-4

(others on application)

Electrical Connection: Cable, DIN, Cannon, Bendix

(others available on application)

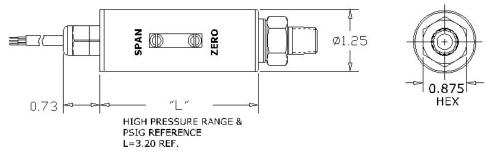
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Ordering guide - Example: 1000-A-(0-500PSI)-2-D-5-EC2

Α	(0-500)	2	D	5	EC1
Pressure Port	Range	Units	Output	Accuracy	Connector
A=1/4" MNPT	Specify Pressure	1=Absolute	D=4-20mA	5=0.5% BFSL*	EC1=36" pigtail
B=SAE-4 (w/o-ring)	Range in PSI, BAR,	2=Gauge	E=0-5VDC	2=0.2%	EC2=DIN 43650 with mate-
C=Other	kPa or inches WC	3=Vacuum	F=0-10VDC	1=0.1%	Large
D=1/8"MNPT		4=Sealed	X=Other		EC3=Mini DIN
E=Autoclave F250C		5=Compound	(4-wire, isolated		EC4=Bendix 6-pin
		6=Other	versions available -		EC9=1/2" NPT conduit
			Contact Factory)		connection with 36" leads

^{*}BFSL = Best Full Scale Line

Dimensions



For pressure ranges below 300 PSI, the "L" dimension is 4.20" Dimensions may vary with options.

Current Output

Wiring	4-20mA, DIN 43650	
Pin 1	+ excitation	
Pin 2	- excitation/signal	
Pin 3	no connection	
Pin 4	no connection	
Power	9-32 Vdc	

Wiring	4-20mA, Cable
White	+ excitation
Black	- excitation/signal
Power	9-32 Vdc

Voltage Output

TO TRANSPORT		
Wiring	Voltage, DIN 43650	
Pin 1	+ excitation	
Pin 2	+ signal	
Pin 3	- excitation/signal	
Pin 4	no connection	
Output	Power	
0-5 Vdc	9-32 Vdc	
0-10 Vdc	13-32 Vdc	

Wiring	Voltage, Cable
Red	+ excitation
Green	+ signal
Black	- excitation/signal
White	no connection
Output	Power
0-5 Vdc	9-32 Vdc
0-10 Vdc	13-32 Vdc

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