



Model 1500 Pressure/Temperature Transducer



- Temperature & Pressure outputs from one 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 0-1 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)

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Spectre's Model 1500 transducer incorporates all of the features of the Model 1000 with the addition of a temperature output. It's large, raw sensor output (10-70X that of a bonded foil strain gauge device), Long term stability of the Model 1500 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 1500 offers aerospace performance to the industrial marketplace.

Performance @ 25℃ (77℉)

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

Temperature range: -40 to +100℃ (-40 to + 212℃)

Optional: -60 to + 130℃ (-76 to +266℉)

Temperature Accuracy: ±1℃ (±2℉)

Environmental Data

Operating temp: -40 to + 85% (-40 to +185%)

(Optional to +275°F – con sult factory)

Storage temp: -50 to +125 $^{\circ}$ C (-60 to +250 $^{\circ}$ C) Compensated range: 0 to 50 $^{\circ}$ C (-32 to +125 $^{\circ}$ 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 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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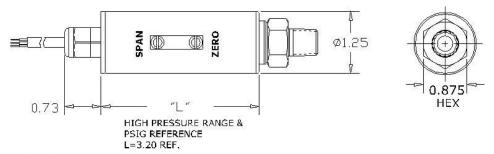
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Ordering guide - Example: 1500-A-(0-500PSI)-2-D-5-EC1

Α	(0-500)	2	D	3	5	EC1
Pressure Port	Range	Units	Pressure Output	Temperature Output	Accuracy	Connector
A=1/4" MNPT B=SAE-4 (w/o-ring) C=Other D=1/8" MNPT E=Autoclave F-250-C**	Specify Pressure Range in PSI, BAR or kPa	1=Absolute 2=Gauge 3=Vacuum 4=Sealed 5=Compound 6=Other	D=4-20mA E=0-5VDC F=0-10VDC X=Other	3=Thermocouple (specify J or K) 4=RTD, 100 ohm Platinum, 2-wire. 5=Other	5=0.5% BFSL* 2=0.2% 1=0.1%	EC1=36" pigtail EC2=DIN 43650 with mate-Large EC3=Mini DIN EC4=Bendix 6-pin EC8=J-Box with terminal strip EC9=1/2" NPT conduit connection with 36" leads

^{*}BFSL = Best Full Scale Line

Dimensions



For pressure ranges below 300 PSI, the "L" dimension is 4.20"



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^{**} Autoclave F-250-C required on ranges above 10,000 PSI