

# A Spectre Corp

### Model 1500 Pressure and Temperature Transducer

- Standard Pressure Outputs: 4-20 mADC,
   0-10 VDC, 0-5 VDC, mV/V
- 0.5% & 0.2% BFSL (Standard) 0.1% BFSL includes 16 Point Calibration with Certificate
- ¼" NPT, SAE-4, F-250C process connections standard – contact factory for other options
- Temperature Outputs: 100 Ω RTD,
   J or K type thermocouple contact factory for dual output options
- Standard ranges from 0-2.5 psi to 0-40000 psi
- Duplicate any customer's process and electrical connection for transparent replacement

The enhanced Model 1500 Pressure and Temperature

Transducer now has dual 4-20 mADC and 1-5 Vdc

temperature output capabilities.



#### **FEATURES:**

**Proprietary Fused Bond Sensor** 

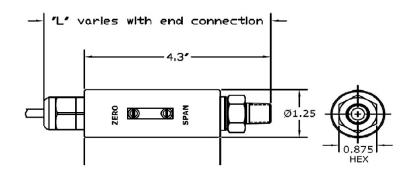
Sensor Wetted Material Machined from Stainless Steel Bar Stock (No Welds)

**RFI/EMI Protection on every unit** 

Unparalleled long-term stability

**External Zero & Span Controls available** 

### **REFERENCE DIMENSIONS:**



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MODEL 1500 REV\_E 10/24/22



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## Model 1500 Pressure and Temperature Transducer

Ordering Guide: 1500-A-(0-300PSI)-2-D-3J-5-EC1-OP5

Α	(0-300)	2	D	3J	5	EC1
PRESSURE PORT	RANGE <sup>1</sup>	TYPE	PRESSURE OUTPUT	TEMP OUTPUT	ACCURACY (BFSL)	CONNECTOR <sup>2</sup>
A = 1/4" MNPT	PSI	1 = ABSOLUTE	D = 4-20 mA	3 = J OR K TC	5 = 0.5%	EC1 = 36" PIGTAIL 3
B = SAE-4 MALE	BAR	2 = GAUGE	E = 0-5 VDC	4 = 100 Ω RTD <sup>4</sup>	25 = 0.25%	EC2 = LARGE DIN 43650, FORM A
C = OTHER	kPA	3 = VACUUM	F = 0-10 VDC	5 = OTHER	1 = 0.1%	EC3 = MINI DIN 4365, FORM C
D = 1/8" MNPT	INCHES WC	4 = SEALED	M = mV/V			EC4 = BENDIX PTIH-10-6P
E = F-250C	TORR	5 = COMPOUND				ECT = TURCK M12
		6 = OTHER				ECX = OTHER

OTHER RANGES AVAILABLE, CONSULT FACTORY
CUSTOM PINOUTS/WIRING AVAILABLE

<sup>&</sup>lt;sup>4</sup> PLATINUM 2-WIRE

OP5
OPTIONS
OP1 = NIST CALIBRATION WITH CERTIFICATE
OP5 = ZERO & SPAN CONTROLS
OP8 = INTERNAL SHUNT CAL RESISTOR (80% FS)
OPX = OTHER (SPECIFY)

Physical Data
Sensor
Wetted Material: 316 SS
Housing: 316 SS
Connections
Pressure: 1/4" MNPT, SAE-4, F-250C

<sup>&</sup>lt;sup>4</sup> Accuracy includes non-linearity, hysteresis and non-repeatability

TYPICAL APPLICATIONS					
Engine Test Stand	Test Stands				
Leak Detection	Rocket/Jet Engine Testing				
Diesel-Internal Combustion	Emission Testing				
Bake Testing	Off-road Vehicles				
Laboratory/Research	Military				

Environmental Data
Temperature
Operating: -40°C to 85°C
Storage: -50°C to 125°C
Thermal Limits
Compensated Range: 0°C to 85°C
Thermal Effect Zero: ≤ ±1.5% FS
Thermal Effect Span: ≤ ±1.5% FS

Electrical Data
Excitation: 9-36 VDC (4-20 mA), 13-36 VDC (0-5V, 0-10V)
Current Consumption: < 5 mADC
Zero Offset: ≤± 0.25% of FS
Span Tolerance: ≤±1.0% of FS
Output Load: >10K Ω
Range Cal Signal: Internal Resistor 100%

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<sup>&</sup>lt;sup>3</sup> PVC STANDARD CABLE JACKET – OTHERS AVAILABLE ON REQUEST