

**Model Number**  
EX1503D05

# PRESSURE TRANSMITTER

Revision: A  
ECN #: 55251

Performance	ENGLISH	SI	
Measurement Range	3,000 psig	20,684 kPa	
Output	4-20 mA	4-20 mA	[1]
Accuracy	≤ .35 % SPAN	≤ .35 % SPAN	[2]
Linearity	≤ .25 % SPAN	≤ .25 % SPAN	
Hysteresis	≤ 0.2 % SPAN	≤ 0.2 % SPAN	
Repeatability	≤ 0.1 % SPAN	≤ 0.1 % SPAN	[3]
Zero Output Tolerance	± 0.3 % SPAN	± 0.3 % SPAN	[1]
Span Tolerance	± 0.3 % SPAN	± 0.3 % SPAN	[1]
Resolution	≤ 150 mpsi	≤ 1.03 kPa	[3]
Resonant Frequency	> 2 kHz	> 2 kHz	
<b>Environmental</b>			
Proof Pressure	2 x FS	2 x FS	
Burst Pressure	3 x FS	3 x FS	
Temperature Range(Operating)	-65 to +300 °F	-55 to +149 °C	
Temperature Range(Compensated)	-40 to +250 °F	-40 to +121 °C	
Thermal Error(Span)	± 2 % SPAN	± 2 % SPAN	[4]
Thermal Error(Zero Shift)	± 2 % SPAN	± 2 % SPAN	[4]
Acceleration Sensitivity(any direction)	0.005 % SPAN/g	0.05 % SPAN /(m/s <sup>2</sup> )	[5]
Maximum Shock	1,000 g pk	9,800 m/s <sup>2</sup> pk	
Vibration Survivability	50 g pk	495 m/s <sup>2</sup> pk	
Hazardous Area Approval	See Manual	See Manual	
<b>Electrical</b>			
Supply Voltage	15 to 28 VDC	15 to 28 VDC	
Electrical Isolation(at 50 VDC)	> 100 MOhm	> 100 MOhm	
<b>Physical</b>			
Sensing Element	Foil Strain Gage (Full Bridge)	Foil Strain Gage (Full Bridge)	
Pressure Port	1/2-14 NPT	1/2-14 NPT	
Thread	External	External	
Dead Volume	0.3 in <sup>3</sup>	4,900 mm <sup>3</sup>	[3]
Wetted Parts Material	17-4 PH Stainless Steel	17-4 PH Stainless Steel	
Housing Material	304/304L Stainless Steel	304/304L Stainless Steel	
Electrical Connector	6-Pin Bayonet Jack	6-Pin Bayonet Jack	
Electrical Connections(Pin A)	Pos (+) Power/Signal	Pos (+) Power/Signal	
Electrical Connections(Pin D)	Neg (-) Power/Signal	Neg (-) Power/Signal	
Weight(without cable)	5.36 oz	152 gm	

## OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

## NOTES:

- [1]Adjustable.
- [2]Combined least squares linearity, hysteresis and repeatability.
- [3]Typical.
- [4]Over compensated temperature range.
- [5]Maximum.
- [6]See PCB Declaration of Conformance PS231 for details
- [7]See Model's "Instructions For Use" (IFU) for North American Conformity and Certification Statements.

## SUPPLIED ACCESSORIES:

Model PTC-2 Calibration of pressure transmitters to full scale pressure range: providing sensitivity, linearity, and hysteresis. Measured zero and span provided.



All specifications are at room temperature unless otherwise specified.  
In the interest of constant product improvement, we reserve the right to change specifications without notice.  
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Entered: ND	Engineer: RPF	Sales: DPC	Approved: RPF	Spec Number:
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