

Model Number
EX1503M46

PRESSURE TRANSMITTER

Revision: NR
ECN #: 53014

Performance	ENGLISH	SI	
Measurement Range	5,000 psig	34,474 kPa	
Output	4-20 mA	4-20 mA	[1]
Accuracy	≤ .35 % FS	≤ .35 % FS	[2]
Linearity	≤ .25 % FS	≤ .25 % FS	
Hysteresis	≤ 0.2 % FS	≤ 0.2 % FS	
Repeatability	≤ 0.1 % FS	≤ 0.1 % FS	[3]
Zero Output Tolerance	± 0.3 % FS	± 0.3 % FS	[1]
Span Tolerance	± 0.3 % FS	± 0.3 % FS	[1]
Resolution	≤ 150 mpsi	≤ 1.03 kPa	[3]
Resonant Frequency	> 2 kHz	> 2 kHz	
Environmental			
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 % FS	± 2 % FS	[4]
Thermal Error(Zero Shift)	± 2 % FS	± 2 % FS	[4]
Acceleration Sensitivity(Maximum)(any direction)	≤ 0.005 %FS/g	≤ 0.05 % FS / (m/s ²)	
Maximum Shock	1,000 g pk	9,800 m/s ² pk	
Vibration Survivability	50 g pk	495 m/s ² pk	
Hazardous Area Approval	See Manual	See Manual	
Electrical			
Supply Voltage	15 to 28 VDC	15 to 28 VDC	
Electrical Isolation(at 50 VDC)	> 100 MOhm	> 100 MOhm	
Physical			
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 ³	4,900 mm ³	[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]See PCB Declaration of Conformance PS231 for details
- [6]See Model's "Instructions For Use" (IFU) for North American Conformity and Certification Statements.



Intertek [6]

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.
ICP® is a registered trademark of PCB Piezotronics, Inc.

Entered: ND	Engineer: RPF	Sales: DPC	Approved: RPF	Spec Number:
Date: 07/12/2022	Date: 07/12/2022	Date: 07/12/2022	Date: 07/12/2022	76577

PCB PIEZOTRONICS Phone: 716-684-0001
AN AMPHENOL COMPANY Fax: 716-684-0987
E-Mail: info@pcb.com

3425 Walden Avenue, Depew, NY 14043