

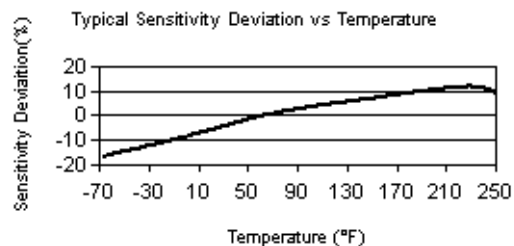
Model Number  
RTD602D11

# INDUSTRIAL ICP® ACCELEROMETER WITH RTD

Revision: NR  
ECN #: 53725

Performance	ENGLISH	SI	
Sensitivity(± 10 %)	100 mV/g	10.2 mV/(m/s <sup>2</sup> )	[1]
Measurement Range	± 50 g	± 490 m/s <sup>2</sup>	
Frequency Range(± 3 dB)	30 to 480,000 cpm	0.5 to 8,000 Hz	[2]
Resonant Frequency	1,500 kcpm	25 kHz	[3]
Broadband Resolution(1 to 10,000 Hz)	350 µg	3,434 µm/sec <sup>2</sup>	[3]
Non-Linearity	± 1 %	± 1 %	[4]
Transverse Sensitivity	≤ 7 %	≤ 7 %	
<b>Environmental</b>			
Overload Limit(Shock)	5,000 g pk	49,050 m/s <sup>2</sup> pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	
Enclosure Rating	IP68	IP68	
<b>Electrical</b>			
Settling Time(within 1% of bias)	≤ 2.0 sec	≤ 2.0 sec	
Discharge Time Constant	≥ 0.3 sec	≥ 0.3 sec	
Excitation Voltage	18 to 28 VDC	18 to 28 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	< 150 Ohm	< 150 Ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Spectral Noise(10 Hz)	8.0 µg/√Hz	78.5 (µm/sec <sup>2</sup> )/√Hz	[3]
Spectral Noise(100 Hz)	5 µg/√Hz	49.1 (µm/sec <sup>2</sup> )/√Hz	[3]
Spectral Noise(1 kHz)	4 µg/√Hz	39.2 (µm/sec <sup>2</sup> )/√Hz	[3]
Electrical Isolation(Case)	> 10 <sup>8</sup> Ohm	> 10 <sup>8</sup> Ohm	

Physical	ENGLISH	SI	
Size (Length x Height x Width)	3.70 in x 0.845 in x 0.74 in	94 mm x 21.5 mm x 18.8 mm	
Weight(without cable)	2.68 oz	76 gm	[3]
Mounting Thread	1/4-28 Male	No Metric Equivalent	[5]
Mounting Torque	2 to 5 ft-lb	2.7 to 6.8 Nm	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Sensing Element(Temperature)	PT100	PT100	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	Molded Integral Cable	Molded Integral Cable	
Electrical Connection Position	Side	Side	
Cable Length	See Note	See Note	[6]
Cable Type	Polyurethane	Polyurethane	[7]



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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## 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.

**M** - Metric Mount  
Supplied Accessory: Model M081B97 Captive Mounting Bolt, M6 x 1 x 25 mm long, hex head (1)

## NOTES:

- [1] Conversion Factor 1g = 9.81 m/s<sup>2</sup>.
- [2] The high frequency tolerance is accurate within ±10% of the specified frequency.
- [3] Typical.
- [4] Zero-based, least-squares, straight line method.
- [5] 1/4-28 has no equivalent in S.I. units.
- [6] Cable length for A0325TO-1 is 10 feet [3.0 meters]. Cable length for A0325TO-2 is 30 feet [9.1 meters].
- [7] 6 Conductor Shielded Cable
- [8] See PCB Declaration of Conformance PS023 for details.

## SUPPLIED ACCESSORIES:

Model 081B97 Captive Mounting Bolt 316SS - 7/16 HEX 1/4-28 UNF (1)  
Model ICS-2 NIST-traceable single-point amplitude response calibration at 6000 cpm (100 Hz) for each axis (1)

Entered: ND	Engineer: gs	Sales: JL	Approved: BAM	Spec Number:
Date: 03/30/2023	Date: 03/30/2023	Date: 03/30/2023	Date: 03/30/2023	77727

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