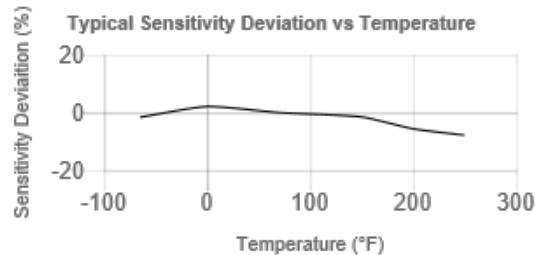


Model Number  
607A61

# SPINDLER® INDUSTRIAL ICP® ACCELEROMETER

Revision: H  
ECN #: 56388

Performance	ENGLISH	SI	
Sensitivity(± 15 %)	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 600,000 cpm	0.5 to 10,000 Hz	
Resonant Frequency	1,500 kcpm	25 kHz	[2]
Broadband Resolution(1 to 10,000 Hz)	350 µg	3,434 µm/sec <sup>2</sup>	[2]
Non-Linearity	± 1 %	± 1 %	[3]
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	[2]
Enclosure Rating	IP67	IP67	
<b>Electrical</b>			
Settling Time(within 1% of bias)	≤ 2 sec	≤ 2 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 µg/√Hz	78.5 (µm/sec <sup>2</sup> )/√Hz	[2]
Spectral Noise(100 Hz)	5 µg/√Hz	49.1 (µm/sec <sup>2</sup> )/√Hz	[2]
Spectral Noise(1 kHz)	4 µg/√Hz	39.2 (µm/sec <sup>2</sup> )/√Hz	[2]
Electrical Isolation(Case)	> 10 <sup>8</sup> Ohm	> 10 <sup>8</sup> Ohm	
<b>Physical</b>			
Size (Hex x Height)	9/16 in x 1.0 in	14 mm x 25.4 mm	
Weight(without cable)	1.1 oz	31 gm	[4]
Mounting	Stud	Stud	
Mounting Thread	1/4-28 Male	1/4-28 Male	[5]
Mounting Torque(Stud)	3 to 4 ft-lb	4.1 to 5.4 Nm	[6][7]
Mounting Torque(hex nut)	2 to 3 ft-lb	2.7 to 4.1 Nm	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	Integral Armored Cable	Integral Armored Cable	
Electrical Connection Position	Side	Side	
Cable Length	10 ft	3.0 m	
Cable Type	Polyurethane	Polyurethane	[8]



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.

**EX** - Hazardous Area Approval- contact factory for specific approvals

**M** - Metric Mount  
Supplied Accessory: Model M080A159A Mounting stud, 1/2-20 to M6 x 1 (1) replaces Model 080A156

TO - Temperature Output	+36 to +250 °F	+2 to +121 °C
Temperature Output Range	5.56 mV/°F + 32	+10 mV/°C
Temperature Scale Factor	Integral Armored Cable	Integral Armored Cable
Electrical Connector	Acceleration Output	Acceleration Output
Electrical Connections(Red)	Ground	Ground
Electrical Connections(Black)	Temperature Output	Temperature Output
Electrical Connections(White)		

## NOTES:

- [1] Conversion Factor 1g = 9.81 m/s<sup>2</sup>.
- [2] Typical.
- [3] Zero-based, least-squares, straight line method.
- [4] Measured with mounting stud.
- [5] 1/4-28 has no equivalent in S.I. units.
- [6] 1/8" hex Allen key required for English version, 3mm hex Allen key required for metric version.
- [7] Stud torque must exceed sensor hex nut torque to ensure proper dismantling.
- [8] Stainless steel armor jacket over twisted shielded pair.
- [9] See PCB Declaration of Conformance PS023 or PS060 for details.
- [10] See Model's "Instructions For Use" (IFU) for North American Conformity and Certification Statements.

## SUPPLIED ACCESSORIES:

Model 080A156 Mounting Base (1)  
Model ICS-2 NIST-traceable single-point amplitude response calibration at 6000 cpm (100 Hz) for each axis

Entered: ND	Engineer: NJF	Sales: JL	Approved: NJF	Spec Number:
Date: 04/20/2026	Date: 04/20/2026	Date: 04/20/2026	Date: 04/20/2026	13704



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