Model Number **607A61**	**SPINDLER® INDUSTRIAL ICP® ACCELEROMETER**	Revision G ECN #: 41189

Performance	**ENGLISH**	**SI**	
Sensitivity (±15 %)	100 mV/g	10.2 mV/(m/s²)	[2]
Measurement Range	±50 g	±490 m/s^2	
Frequency Range (±3 dB)	30 to 600000 cpm	0.5 to 10000 Hz	
Resonant Frequency	1500 kcpm	25 kHz	[1]
Broadband Resolution (1 to 10000 Hz)	350 µg	3434 µm/sec^2	[1]
Non-Linearity	±1 %	±1 %	[3]
Transverse Sensitivity	≤7 %	≤7 %	
Environmental			
Overload Limit (Shock)	5000 g pk	49050 m/s² pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Enclosure Rating	IP67	IP67	
Electrical			
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^2 /√Hz	[1]
Spectral Noise (100 Hz)	5 µg/√Hz	49.1 (µm/sec^2 /√Hz	[1]
Spectral Noise (1 kHz)	4 µg/√Hz	39.2 (µm/sec^2 /√Hz	[1]
Electrical Isolation (Case)	>10^8 Ohm	>10^8 Ohm	
Physical			
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]

[9]

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.

Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

EX - Hazardous Area Approval- contact factory for specific approvals

Hazardous Area Approval	Cl I, Div 2, Groups A, B, C, D; ExnL IIC T4, AExnA IIC T4	Cl I, Div 2, Groups A, B, C, D; ExnL IIC T4, AExnA IIC T4
Hazardous Area Approval	EEx nL IIC T4, -40°C≤Ta≤121°C, II 3 G	EEx nL IIC T4, -40°C≤Ta≤121°C, II 3 G
Hazardous Area Approval	EEx nL IIC T4, -40°C≤Ta≤121°C, II 1 G	EEx nL IIC T4, -40°C≤Ta≤121°C, II 1 G
Hazardous Area Approval	Cl I, Div I, Groups A, B, C, D; Cl II, Div I, Groups E, F, G; Cl III, Div I	Cl I, Div I, Groups A, B, C, D; Cl II, Div I, Groups E, F, G; Cl III, Div I
Hazardous Area Approval	Exia IIC T4, AExia IIC, T4	Exia IIC T4, AExia IIC, T4

M - Metric Mount

Supplied Accessory: Model M080A159A Mounting stud, 1/2-20 to M6 x 1

TO - Temperature Output

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

Notes

[1] Typical.
[2] Conversion Factor 1g = 9.81 m/s².
[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] Stud torque must exceed sensor hex nut torque to ensure proper dismantling.
[7] 1/8" hex Allen key required for English version, 3mm hex Allen key required for metric version.
[8] Stainless steel armor jacket over twisted shielded pair.
[9] See PCB Declaration of Conformance PS023 or PS060 for details.

Supplied Accessories

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

Entered: AP	Engineer: jg	Sales: EGY	Approved: BAM	Spec Number:
Date: 04/11/2013	Date: 04/11/2013	Date: 04/11/2013	Date: 04/11/2013	**13704**

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