

Model Number
350M90

ICP® SHOCK ACCELEROMETER

Revision: NR
ECN #: 45219

Performance

	ENGLISH	SI	
Sensitivity(± 30 %)	0.1 mV/g	0.01 mV/(m/s ²)	
Measurement Range	± 25,000 g pk	± 245,250 m/s ² pk	
Frequency Range(± 1 dB)	4 to 10,000 Hz	4 to 10,000 Hz	
Frequency Range(-3 dB)	2 to 25,000 Hz	2 to 25,000 Hz	[2]
Electrical Filter Corner Frequency(-3 dB)	17 kHz	17 kHz	[1][3]
Mechanical Filter Resonant Frequency	35 kHz	35 kHz	[1][4]
Resonant Frequency	≥ 100 kHz	≥ 100 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.5 g rms	4.9 m/s ² rms	[1]
Non-Linearity(per 10,000 g (98,100 m/s ²))	≤ 2.5 %	≤ 2.5 %	
Transverse Sensitivity	≤ 7 %	≤ 7 %	

Environmental

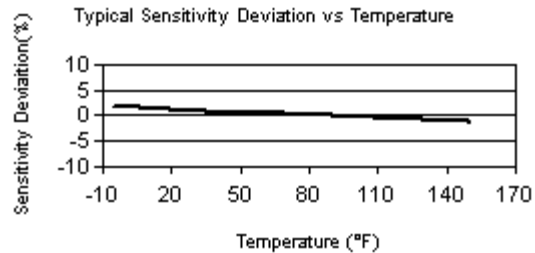
Overload Limit(Shock)	± 150,000 g pk	± 1,471,500 m/s ² pk	
Temperature Range(Operating)	-6 to 150 °F	-21 to 66 °C	
Temperature Range(Storage)	-40 to 200 °F	-40 to 93 °C	
Temperature Response	See Graph	See Graph	[1]

Electrical

Excitation Voltage	20 to 30 VDC	20 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 200 Ohm	≤ 200 Ohm	
Output Bias Voltage	8 to 14 VDC	8 to 14 VDC	
Discharge Time Constant	0.10 sec	0.10 sec	[1]
Settling Time(within 10% of bias)	<1 sec	<1 sec	
Electrical Isolation(Case)	>1,000,000 Ohm	>1,000,000 Ohm	

Physical

Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Hex x Height)	0.375 in x 0.87 in	9.5 mm x 22.1 mm	
Weight(without cable)	0.16 oz	4.5 gm	[1]
Electrical Connector	Integral Cable	Integral Cable	
Electrical Connection Position	Top	Top	
Cable Termination	10-32 Coaxial Plug	10-32 Coaxial Plug	
Cable Length	10 ft	3.05 m	
Cable Type	031 Twisted Pair	031 Twisted Pair	
Mounting Thread	1/4-28 Male	1/4-28 Male	



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		
Mounting Thread	M6 x 0.75 Male	M6 x 0.75 Male

NOTES:

- [1]Typical.
- [2]Typical corner frequency for coupled electrical and mechanical filters.
- [3]Electrical filter is a second order filter.
- [4]Amplitude at resonance is +9 dB.
- [5]See PCB Declaration of Conformance PS135 for details.

SUPPLIED ACCESSORIES:

- Model ACS-14 High G shock accelerometer calibration using Hopkinson bar. (1)
- Model ACS-22 NIST Traceable frequency response (100Hz to ±1 dB point) (1)

Entered: LK	Engineer: BAM	Sales: WDC	Approved: BAM	Spec Number:
Date: 3/16/2016	Date: 3/16/2016	Date: 3/16/2016	Date: 3/16/2016	63934

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