

Model Number  
**EX357E92**

# CHARGE OUTPUT ACCELEROMETER

Revision: A  
ECN #: 49874

	<u>ENGLISH</u>	<u>SI</u>	
<b>Performance</b>			
Sensitivity(± 10 %)	2.3 pC/g	0.23 pC/(m/s <sup>2</sup> )	
Measurement Range	± 1000 g pk	± 9800 m/s <sup>2</sup> pk	
Frequency Range(± 5 %)	3 kHz	3 kHz	
Frequency Range(± 1 dB)	5 kHz	5 kHz	
Resonant Frequency	≥ 15 kHz	≥ 15 kHz	
Non-Linearity(per full scale range)	≤ 2.5 %	≤ 2.5 %	
Transverse Sensitivity	≤ 5 %	≤ 5 %	
<b>Environmental</b>			
Overload Limit(Shock)	± 2000 g pk	± 19,600 m/s <sup>2</sup> pk	
Temperature Range(Operating)	-67 to 1200 °F	-55 to 649 °C	
Temperature Range(Survivable Limit)	-67 to 1400 °F	-55 to 760 °C	
Temperature Range(Cable Termination)	-67 to 900 °F	-55 to 482 °C	
Temperature Response	See graph	See graph	[1]
Radiation Exposure Limit(Integrated Neutron Flux)	1 E10 N/cm <sup>2</sup>	1 E10 N/cm <sup>2</sup>	
Radiation Exposure Limit(Integrated Gamma Flux)	1 E8 rad	1 E8 rad	
<b>Electrical</b>			
Capacitance	1000 pF	1000 pF	[1][2]
Insulation Resistance(@ 1200°F[649°C])	≥ 10 kohm	≥ 10 kohm	
Insulation Resistance(@ 70° F [21°C])	≥ 100 MOhm	≥ 100 MOhm	
Output Polarity	Negative	Negative	[3]
Electrical Isolation	Signal isolated from case	Signal isolated from case	
<b>Physical</b>			
Sensing Element	UHT-12™	UHT-12™	
Sensing Geometry	Shear	Shear	
Housing Material	Inconel	Inconel	
Sealing(Sensor Housing)	Hermetic	Hermetic	
Sealing(Connector)	Welded Hermetic	Welded Hermetic	
Size (Height x Length x Width)	.56 in x .95 in x .56 in	14.2 mm x 24.1 mm x 14.2 mm	
Weight(without cable)	1.6 oz	45 gm	[1]
Electrical Connector	Integral Hardline Cable	Integral Hardline Cable	
Mounting	Through Hole	Through Hole	
Cable Length	10 ft	3.05 m	
Cable Type	015 Hardline Cable	015 Hardline Cable	
Cable Termination	10-32 Coaxial Jack	10-32 Coaxial Jack	

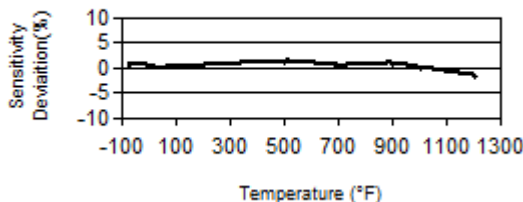
## OPTIONAL VERSIONS

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] Typical.
- [2] Additional cable length will add approx. 100pF/ft.
- [3] Negative output signal with positive acceleration.
- [4] See PCB Declaration of Conformance PS199 for details.
- [5] See Model's "Instructions For Use" (IFU) for North American Conformity and Certification Statements.

Typical Sensitivity Deviation vs Temperature



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.

## SUPPLIED ACCESSORIES:

Model 081A116 Mounting Screw, 10-32 UNJF-3Ax 5/8", Inconel 718 (1)  
Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)

Entered: LK	Engineer: YHK	Sales: MC	Approved: NJF	Spec Number:
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