

Model Number  
**EX357E90**

# CHARGE OUTPUT ACCELEROMETER

Revision: A  
ECN #: 49874

**Performance**

	<b>ENGLISH</b>	<b>SI</b>
Sensitivity(± 10 %)	5 pC/g	.51 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	≥ 14 kHz	≥ 14 kHz
Non-Linearity(per full scale range)	≤ 2.5 %	≤ 2.5 %
Transverse Sensitivity	≤ 5 %	≤ 5 %

**Environmental**

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
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

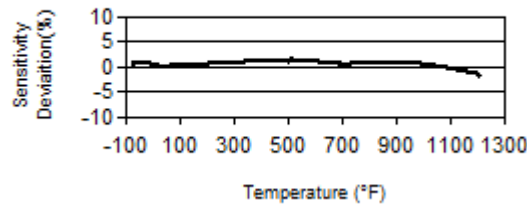
**Electrical**

Capacitance	990 pF	990 pF
Insulation Resistance(@ 1200°F[649°C])	≥ 10 kohm	≥ 10 kohm
Insulation Resistance(@ 70° F [21°C])	≥ 100 MOhm	≥ 100 MOhm
Electrical Isolation	Signal isolated from case	Signal isolated from case

**Physical**

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)	.66 in x 1.16 in x .66 in	16.7 mm x 29.5 mm x 16.7 mm
Weight(without cable)	1.8 oz	50 gm
Mounting	Through Hole	Through Hole
Cable Length	10 ft	3.05 m
Cable Type	MI Hardline Cable	MI Hardline Cable
Cable Termination	10-32 Coaxial Jack	10-32 Coaxial Jack

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.

**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] See PCB Declaration of Conformance PS199 for details.
- [4] See Model's "Instructions For Use" (IFU) for North American Conformity and Certification Statements.

**SUPPLIED ACCESSORIES:**

- Model 081C108 Mounting Screw, 1/4-28x1, Inconel (1)
- Model ACS-1 NIST traceable frequency response (10 Hz to upper 5% point). (1)

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