



## Charge Amplifiers for EEPE Accelerometers

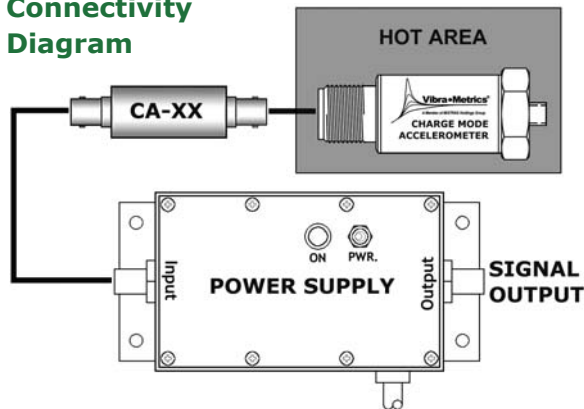
### Features

- Transforms high impedance charge output to low impedance voltage signal
- Low noise amplifier
- Compact design
- Powered by standard Vibra-Metrics constant current power supplies

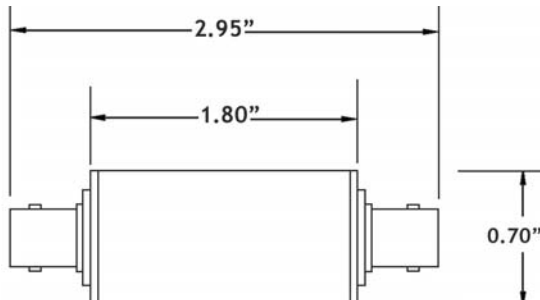
### Applications

- Anywhere a charge output type accelerometer is required due to high temperature considerations

### Connectivity Diagram



### Outline Drawing



### Operating Specifications

#### Dynamic

Sensitivity @100Hz, ±10%	
CA-10	10 mV/pc
CA-04	4 mV/pc
Frequency Range	
±5%	3 Hz – 15 kHz
±10%	1.7 Hz
±3 dB	1 Hz
Amplitude Linearity	<1%
Turn-on Time (2% of final bias)	<1 second

#### Electrical

Output Voltage, Maximum	6.5 V rms
Noise (typical) with 1 nF source capacitance	
Broadband 2.5 Hz to 25 kHz	20 uV
Spectral 10 Hz	2 µV/√Hz
100 Hz	.5 µV/√Hz
1000 Hz	.2 µV/√Hz
Output Impedance (no cable)	<1000 Ω
Isolation	Isolated, >100 Meg Ω
Bias Volts (nominal)	12 VDC
Power Requirements	24-30 VDC
Current Regulating Diode	1-6 mA cc

#### Environmental

Temperature Range	-40 to 212°F / -40 to 100°C
Shock Limit	10 g pk

#### Physical

Physical Dimensions	2.95" L x .70" dia. (7.5 x 1.8 cm)
Weight	2.1 oz / 60 grams
Case Material	Stainless steel tubing
Seal	Welded
Connector, Input BNC	
Connector, Output BNC	

### Ordering Information:

Model CA-10 .....	9357-5015
Model CA-04 .....	9357-5025

Power Supplies, 2 mA output, BNC/BNC	
Model P1000B, battery, 15 VDC .....	9353528
Model LP24-1B, 110 VAC line input, 24 VDC .....	9356120
Model P5000, rechargeable battery, 24 VDC .....	9356559

Cable Assemblies	
Cable, Coaxial, RG58 BNC(M)/BNC(M) .....	9353485

#### Charge Amplifiers include:

1-Year Warranty

**For more information about Vibra-Metrics accelerometers, call us today at 609-716-4130, or visit us on-line at [www.vibrametrics.com](http://www.vibrametrics.com)**



195 Clarksville Road, Princeton Junction, NJ 08550 • Phone: 609-716-4130 • Fax: 609-716-0706  
Email: [sales@vibrametrics.com](mailto:sales@vibrametrics.com) • Internet: [www.vibrametrics.com](http://www.vibrametrics.com)

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