



Low Temperature Coefficient Triaxial ICP® Accelerometers

July 2012



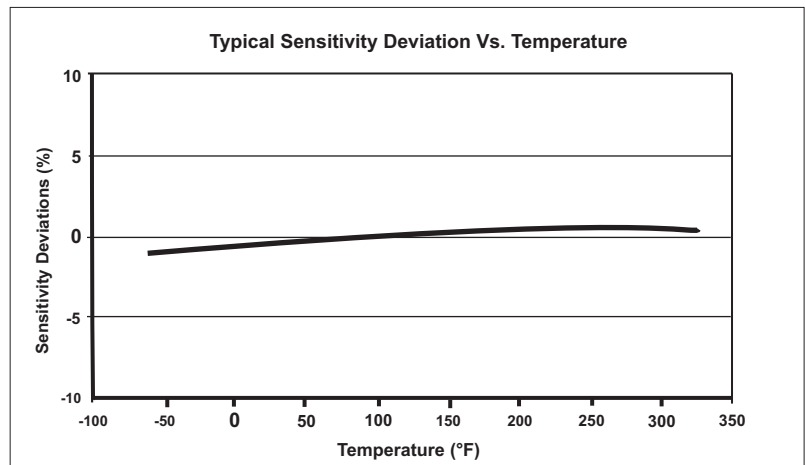
Series 339A

Key Features:

1. Temperature coefficient of less than 0.02% / °C
2. 10 mV/g sensitivity
3. Measurement frequency to 8000 Hz
4. Operating temperature from -54 to +163 °C
5. Titanium housed and hermetically sealed
6. Available in stud and adhesive mounting configurations

Applications

- Powertrain Development
- Powertrain NVH
- Vehicle Systems NVH
 - Underhood
 - Exhaust
 - Brake
- Component and System Performance
 - Vehicle Road Load & Durability
 - Climatic Chamber Testing



PCB® Series 339A Triaxial ICP® accelerometers are designed with a low temperature coefficient, wide operating temperature range, and good broadband measurement resolution, making them ideal for powertrain development and powertrain NVH applications, or for any vibration measurement requiring tight control of amplitude sensitivity over a wide thermal gradient. To alleviate the effects of high frequency overloads caused by metal-to-metal inputs, a low pass filter has been incorporated, ensuring accurate data in the frequency range of interest. These sensors provide precision amplitude data for test applications with large thermal shifts.

Low Temperature Coefficient Triaxial ICP® Accelerometers



Model 339A30

Sensitivity: 10 mV/g,
Measurement Range: ± 500 g pk
Broadband Resolution: (1 to 10000 Hz) 0.008 g rms
Electrical Connector: 8-36 4-Pin
Weight: 4 gm
Mounting: Adhesive



Model 339A31

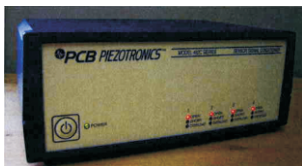
Sensitivity: 10 mV/g
Measurement Range: ± 500 g pk
Broadband Resolution: (1 to 10000 Hz) 0.008 g rms
Frequency Range: ($\pm 5\%$) 2 to 8000 Hz
Electrical Connector: 8-36 4-Pin
Weight: 5.5 gm
Mounting: 5-40 Stud



Model 339A32

Sensitivity: 10 mV/g
Freq: 2 to 8k Hz
Measurement Range: ± 500 g pk
Broadband Resolution: (1 to 10000 Hz) .003 g rms
Electrical Connector: 8-36 4-Pin
Weight: (3.6 gm)

Recommended Signal conditioners for series 339A



Model 482C05

Line-powered ICP® sensor signal cond
Channels: 4
Voltage Gain: ($\pm 1\%$) (at 500 Hz) 1:1
Input/Output connectors: BNC



Model 482C16

Channels: 4-channel
line-powered, ICP®/ voltage sensor signal conditioner
incremental gain x0.1 to x200
Digital Control Interface: RS232

Structural Solutions Private Limited

3-6-271, Sudheer Tapani Towers, Himayath Nagar, Hyderabad - 500 029, INDIA

Tel: +91-40-2322 2380 /81/82/83 Fax: +91-40-2322 2384

Email ID: sales@stsols.com, Url: www.stsols.com