

CTC AppNotes

A series of technical documents written by members of the CTC community

High Frequency/High G Triaxial Accelerometers

Triaxial accelerometers provide many benefits when collection data in terms of speed of data collection and for collecting data for modal analysis and operating deflection shape evaluation. Many standard 100mV/g triaxial accelerometers only are rated for a +/-50 g dynamic range and provide data accurate to 3dB up to 7 or 8 kHz. CTC's new 10 mV/g Triaxial sensors, AC132-1D and AC232-1D provide a solution to situations where standard sensors are not appropriate.

High g forces and high frequency components of vibration



AC132-1D Low Cost Triaxial 10 mV/g accelerometer.

When performing data analysis on high speed gear-boxes with high g levels and high frequency data components such as gear mesh, The high levels of

vibration can saturate standard 100 mV/g triaxial sensors. The AC232-1D is a 10 mV/g sensor with an excellent response curve and a 3 dB rating of up to 12 kHz.

Multiple possible uses

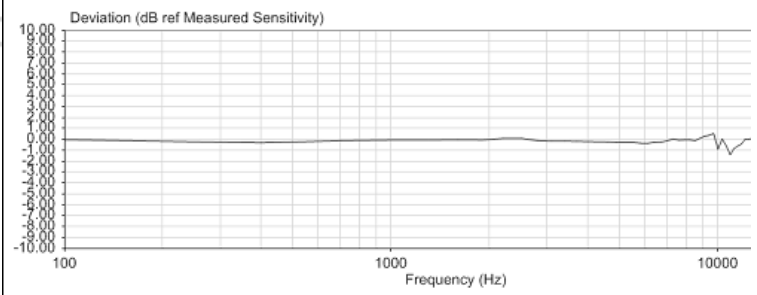
Frequently High G applications such as ball mills need monitoring as well. The AC132/AC232 sensors are excellent choices for similar applications where it is the very high g forces that can cause a sensor to become saturated.



Premium AC232 High frequency, High g accelerometer. Typical 3dB range from 1 hz to 10kHz

Dynamic range

The AC132-232 sensors typically have a wide dynamic range from 1 Hz to 10,000 Hz within 3 dB. AC132-1D and AC232-1D can be ordered from our website,



AC232 High frequency, High accelerometer typical response curve.

www.ctconline.com or from your local CTC distributor.

If you have any questions or for further information please contact CTC directly via Email at dgripe@ctconline.com or jsmith@ctconline.com or feel free to call 1-800-999-5290 in the US and Canada or +1-585-924-5900 internationally.

**

If any CTC vibration analysis hardware product should ever fail, we will repair or replace it at no charge.