

Vibration By Accelerometer



Product Categories: [Electronics](#), [Engineering Equipment](#), [Instrumentation Lab](#), [Instrumentation Lab](#)

Product Page: <https://www.labappara.com/product/vibration-by-accelerometer/>

Product Description

Vibration By Accelerometer

Dynamic Range is the +/- maximum amplitude that the accelerometer can measure before distorting or clipping the output signal.

Frequency Response is determined by the mass, the piezoelectric properties of the crystal, and the resonance frequency of the case. It is the frequency range where the output of the accelerometer is within a specified deviation, typically +/- 5%. g 1g is the acceleration due to the earth's gravity which is 32.2 ft/sec², 386 in/sec² or 9.8 m/sec².

High Frequency Limit is the frequency where the output exceeds the stated output deviation. It is typically governed by the mechanical resonance of the accelerometer.

Low Frequency Cut-off is the frequency where the output starts to fall off below the stated accuracy. The output does not "cut-off " but the sensitivity decreases rapidly with lower frequencies.

Temperature Sensitivity is the voltage output per degree of measured temperature.

The sensors are temperature compensated to keep the change in output to within the specified limits for a change in temperature.

Temperature Range is limited by the electronic micro circuit that converts the charge to a low impedance output. Typically the range is -50 to 120C.