



S14 W33511 Highway 18 • Delafield, WI 53018 • 262 968-4003 • Fax: 262 968-3050 • 800 969-4050

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Vibration testing is performed on many different products to determine the impact of shipping, handling, transportation and installed application conditions on operational and non-operational quality and safety. A vibration test will expose a product under test to a simulated profile of actual use exposures. Products that are generally subjected to irregular pressure and airflow are candidates for random vibration testing and include mechanical and electrical products from industries such as medical, automotive, telecommunications, commercial, industrial and military.

Determining the profile or just how much shock / vibration should be applied to the unit under test is critical to the development of a test plan. Since the conditions applied during shipping, handling, transportation and use does not follow a certain pattern, each product should have a shock / vibration profile that is the closest possible simulation to reality.

Random vibration simulates shock that may differ occasionally, randomly, or even both. Random vibration testing provides information on the ability of the UUT to endure exposures to shipping, use and handling. Random vibration testing also provides checks on the functional quality, safety and reliability of the test unit.

DATASYST can perform random vibration testing on a devices varying in size, weight and required test profile. Information on the orientation of the component in use and / or packaging that is or will be used when released in the market; the peripheral equipment required; and that any functional testing required on the unit under test has instructions / specifications provided in a clearly stated operating manual.

If the UUT is found to have defects or resonant frequencies that have impact on quality or safety, the client can then make adjustments to the product. DATASYST can provide analysis on the product and provide input on improvements. A full complement of testing is available at DATASYST such as climactic conditions can be coupled with vibration and other environmental conditions such as heat, cold, humidity, thermal shock, altitude, dust and gravel bombardment can be added to round out the test program.

DATASYST is available to assist you with your project, contact us at 800-968-4008 to discuss your needs. We serve the clients from our Midwest location with many clients able to drive to witness testing who are located in the Milwaukee &, Madison, Wisconsin, Chicago, Illinois region and Minneapolis / St. Paul areas.

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