

Multi Frequency Swept Sine Vibration Reduces Time for Sine Sweep Vibration Tests

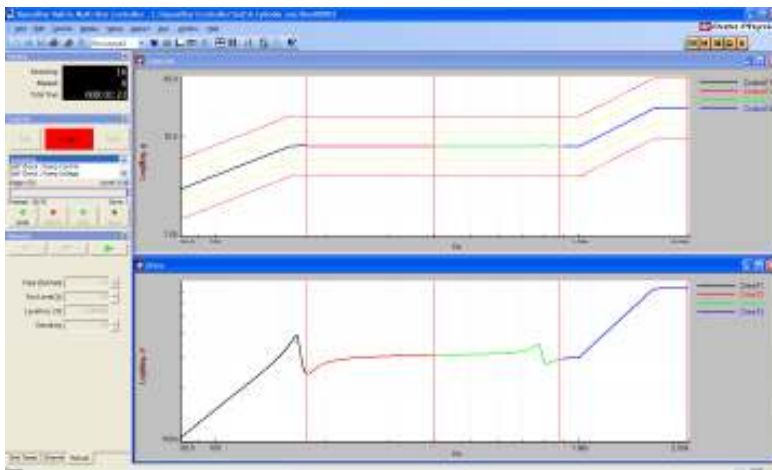
A new Multi Frequency Swept Sine Control software package has been released by Data Physics.

Developed to allow long term durability testing to be completed in a fraction of the time normally associated with swept sine testing, the application has recently been approved by a consortium of German automobile manufacturers and has attracted the interest of vibration test engineers in other sectors of the Vibration Test industry.

The time reduction comes from dividing the sweep frequency range into up to 8 sections and simultaneously controlling an independent swept sine tone with its own tracking filter in each section. Using this method, the time required to complete each full sweep in comparison to a single frequency sine test is reduced by 75% for 4 sines and 87.5% for 8 sines. A 10 minute conventional sweep could be completed using 8 sine tones in just 1.25 minutes with the same number of cycles and therefore the same fatigue. The advantage in testing throughput cost and time is massive.

The powerful DSPcentric architecture of the Data Physics Abacus hardware used in its SignalStar Vibration Controller range provides the processing power for the remarkable capability required in Multi Frequency Swept Sine Testing.

For more information, please email sales@dataphysics.com or call 01323 846464 ext 630 for sales



Sine sweep test with 4 sweep sections