L.A.B
OUR EQUIPMENT. YOUR SUCCESS.

DATA ACQUISITION

DAS - 105

DAS-105 SHOCK DATA ACQUISITION SYSTEM

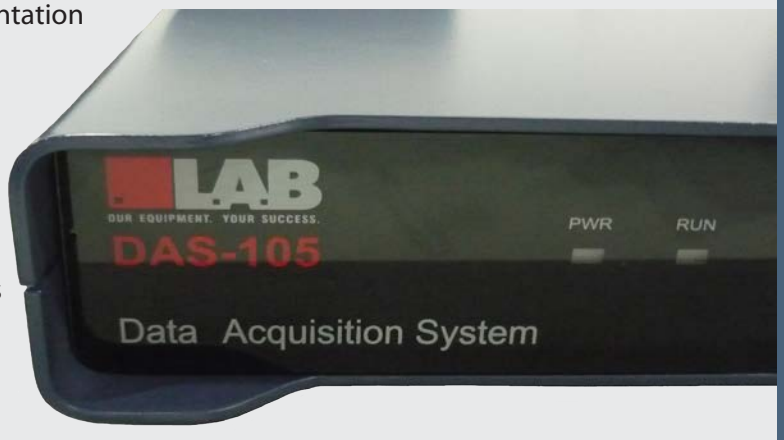
Introducing the DAS-105 shock data acquisition and analysis system. The DAS-105 represents the latest advancement in shock event detection technology. With a high speed, low noise hardware design, and an easy to use software based graphical interface, the DAS-105 is the perfect blend of performance and user convenience.

WHAT DOES THE DAS-105 OFFER?

- Up to 8 channels dual DSP distributed architecture (standard package is 4 channels)
- All DAS Systems come standard with a Triax Accelerometer
- Plug and play USB interface
- ICP or analog input
- 24 bit resolution for analog-to-digital conversion
- 192 KHz sampling frequency per channel
- Built in programmable amplifier or ICP constant flow signal conditioning
- 0.1 to 100ms pulse duration capture
- Manual or automatic triggering modes
- FFT, time domain, shock response, force deflection, and RSS analysis
- Flexible filtering options
- Detects Half-Sine, Square, Trapezoidal, Clock, Triangle, and Sawtooth Waveforms

DAS-105 FEATURES

- Custom real-time data storage & presentation
- Programmable testing parameters
- Real-time auto scale graphing
- Programmable home preset for repetitive testing
- Universally exportable data format
- Custom control & presentation options available
- Data storage and retrieval
- Multi and single set graphing



- Static (warehouse) simulation control settings for load, duration, and displacement
- Complies with ASTM, ISO, and other internationally recognized standards

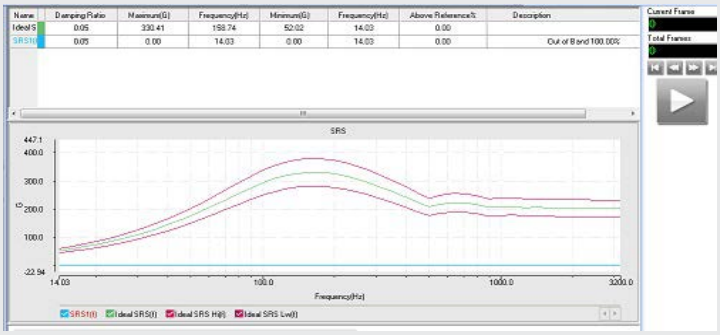
DATA STORAGE

- Playback: Manually play back shock waveforms
- Automatically saves signals

Windows 8

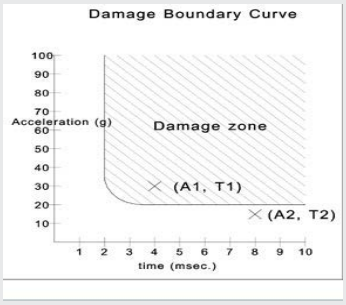
DATA ACQUISITION SOFTWARE DAS - 105

SHOCK RESPONSE SPECTRUM (SRS) ANALYSIS *



- Resolution: 1, 1/2, 1/3, 1/6, 1/12, 1/24th multiple frequency formula analysis
- Analysis of parameters: Adjustment of D (damp) and Q value, individually adjusting upper and lower limit and reference frequency
- SRS Chart, SRS Cascade Observation, Force deformation analyst, Triaxial analyst, and Torsion impact analyst
- SRS Definition: Calculation of SRS via ideal waveforms, automatic generation of RRS, setting of allowance in RRS table or waveform

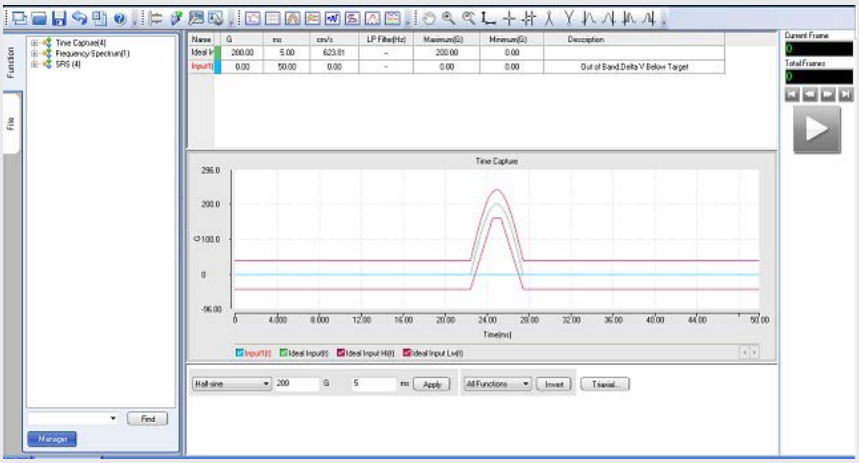
DAMAGE BOUNDARY CURVE (DBC) *



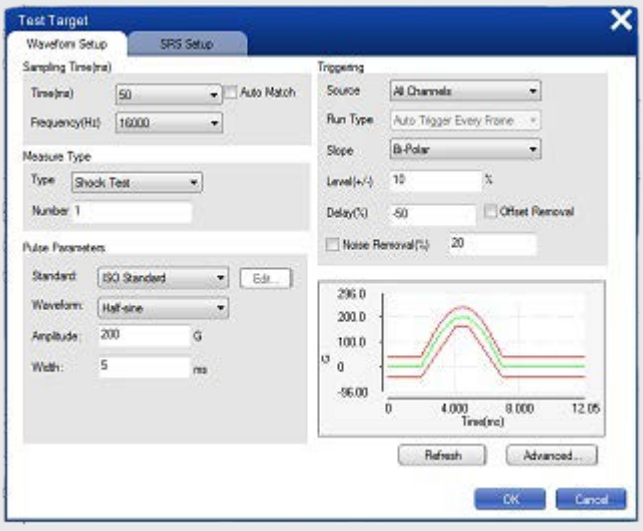
- Measures frailty of product
- Critical velocity change is determined
- Knowing the DBC will reduce testing on standard products that have been modified
- Reduces cushioning of packaging and overkill in the design process

* Standard on 8 Channel DAS-105, optional on 4 Channel

IDEAL WAVEFORMS



TEST TARGET SETUP



FILTER SETUP

Due to our continuous commitment to product development, the above specifications and features may be modified without notice.

L.A.B.. Equipment, Inc.., 1549 Ardmore Avenue, Itasca, IL 60143, USA Phone: 630-595-4288 Fax: 630-595-5196 www.labequipment.com