

Model 5941-001 Nth Octave Analyzer

Version 1.6

Features

IEC 1260, ANSI S1.11 and FFT-based octave analysis algorithms

Octave fractions of 1/1, 1/3, 1/6, 1/12 and 1/24

Interactive analysis-period selection

Averages spectra for any number of channels

File Formats

SDRC "Universal" (Type 58), Comma-separated variable (CSV) Excel-compatible, CATS or DATX format, Statistics, JPEG graphical plot output

Multiple channel-selection strategies:

- Random/Manual (interactive)
- Contiguous Set (batch)
- List File (batch)

600 channels per hour analysis/hardcopy speed (typical)

Superimposition of limits on plots

Manual or automatic plot scaling

Ordering Information

Model 5941-001



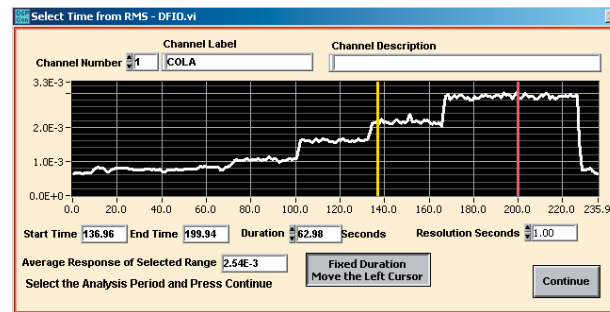
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Nth Octave Analyzer

The Nth Octave Analyzer processes one or more CATS and DATX time history files to provide octave-fraction-based spectral analysis. Filter algorithms include IEC 1260, ANSI S1.11, and an FFT-based filter that is provided for consistency with heritage analyses. Result options include Sound Pressure Level (SPL) and Power Spectral Density (PSD) in graphical and a variety of output-file forms. The system operates in *Interactive* mode, which is used to examine the results from individually-selected channels, or in *Batch* mode, which produces results in hard copy and file form at maximum speed.

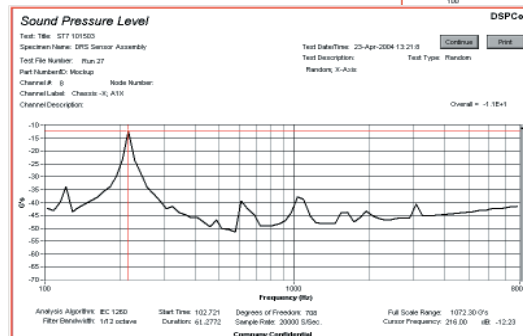
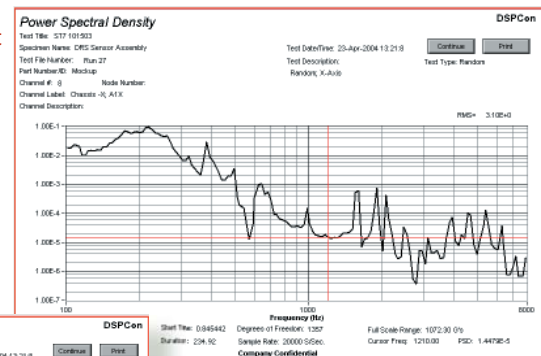
Data sets are analyzed according to such user-configured parameters as bandwidth, filter type, Sound Pressure Level (SPL), Power Spectral Density (PSD), Time, Frequency, and Degrees of Freedom.



The Analysis Time Selection Window plots the RMS response of a selected channel as a function of time for the entire test. Two cursors, which are separated by the time duration, are used to delimit the analysis duration, which can be either fixed or variable.

Analysis Time Selection Window

Results of a Power Spectral Density Test



Results of a Sound Pressure Level Test