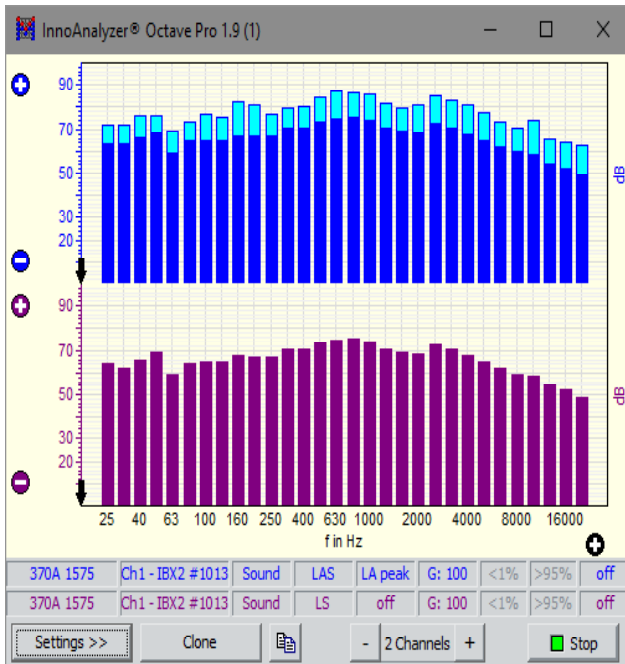
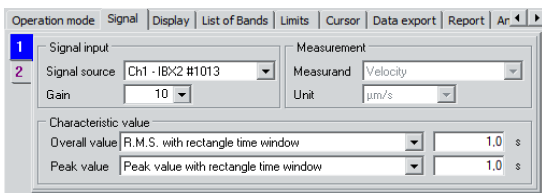


InnoAnalyzer Octave 1.9

Octave band analyser



Acoustic mode with switchable peak value display.

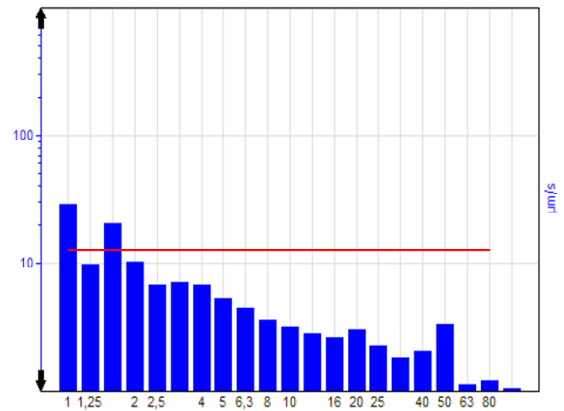


The measured variables are already preset in accordance with VDI 3038 Part 2. Average values and peak values are also possible.

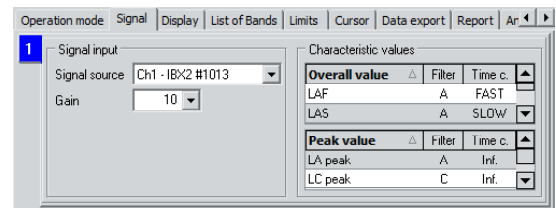
Application

For the monitoring of highly sensitive devices, such as electron microscopes or lithography systems, an analysis of the 1/3 octave bands (thirds) has proven its value. This analysis is used especially in the semiconductor industry. Limit value curves (Vibration Criteria, VC lines) are defined for various usage criteria. Further nano lines have been agreed, especially for applications in nanotechnology. The InnoAnalyzer Octave instruments are specially designed for monitoring VC and nano lines.

Octave band analyses are also used for acoustic measurements. Thus, the (weighted) levels of the individual bands on a large frequency range can be recorded at a glance.



Limits can be selected (e.g. VC-lines) or individually be set up



A frequency weighting (effective value and peak value) for acoustic measurements can be selected.

Properties

Measurement quantities, units and limit value curves (VC-A.. VC-G, Nano-D, Nano-E, Nano-EF) are already preset for measurements of VC and nano lines according to VDI 2038 Part 2. In addition to the displayed effective values, peak values can also be displayed.

For acoustic measurements, frequency weightings for effective and peak values as well as limit value curves can be freely selected.

Band amplitudes are automatically found and listed, the values can also be displayed directly in the chart if required. In addition, two cursors with measured value display provide support during analysis. It is easy to transfer the measurement curve as a graphic or as pairs of values in text format to other applications

During unattended operation, analyses can be saved periodically or limit dependent or be sent via e-mail.



Technical Data

InnoAnalyzer Ocatve Pro	
Signal Processing	
Measurands	Alternating measurands: Vibration acceleration, velocity, displacement; force, pressure, sound pressure, voltage, user-defined measurands
Integrated Measurands	Acceleration → Speed → Displacement
Units	m/s ² , mm/s ² , μm/s ² , nm/s ² , pm/s ² , g, mg, μg, km/s ² , kg, dB m/s, mm/s, μm/s, nm/s, pm/s, in/s, mil/s, μin/s, dB m, mm, μm, nm, pm, ft, in, mil, μin, dB bar, mbar, MPa, kPa, hPa, Pa, mPa, μPa, nPa, psi Sound evaluated
Characteristics	Peak value, Peak-to-peak value, r.m.s. value, phase
Measurands and Units X-Axis	Frequency (Hz) / Rotation speed (1/min) / Rotation speed order
Frequency Range	preset vor VC and nano lines (1... 100 Hz) as well as for acoustics (20.. 20 000 Hz, freely selctable 0.1.. 40 000 Hz
FFT Modes	free settings, ISO, VC, Nanon lines, acoustics
Graphical Presentation	
Number of Graphs	1 .. 4 for magnitude and 1..4 for phase per window
Refresh	1 / 8 / 16 times per second *
Interval Y-Axis	Magnitude: 0.1 .. 10000 (logarithmic as well)
Interval X-Axis	1 .. 40 000 Hz /6 .. 2 400 000 U/min ** / 600 .. 2 400 000 min ⁻¹ **
List of Magnitudes	1..45 magnitudes (search sensitivity adjustable), sorting acc. to magnitude or frequency
Cursors	2 lines, freely adjustable by mouse or button, display of cursor values and difference
Limit Graph	Graphically free adjustable with 100 points (free settings + acoustic mode9, VC-A .. VC-G, Nano-D, Nano-E, Nano-EF
Status Indicators	Sensor, measuring channel, measurand, characteristic, gain, underload, overload, level
Data Export	
Control	Manually time- or level-triggered
Formats	Bitmap, PNG, Enhanced Meta File (EMF), text
Destinations	Clipboard or file
Event Annunciators	
E-Mail	Trigger initiates tranfer of exported measurement data
Miscellaneous	
Available in a Kit	VMSet-25
General Functions	Measurement data is held after switching off, module is cloneable

* Centrally managed in the InnoMaster

** when working with InnoBeamer LX2: Upper frequency limit 3200 Hz = 192 000 min⁻¹

Changes without prior notice

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