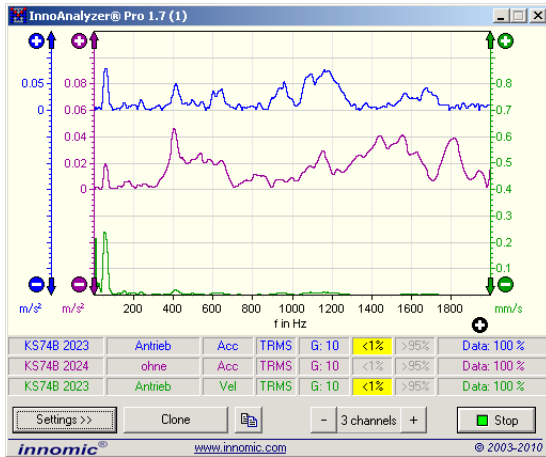




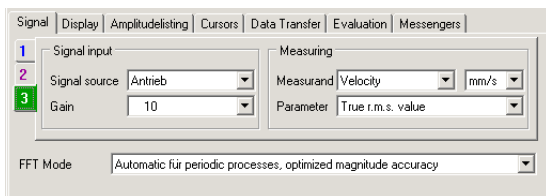
InnoAnalyzer® 1.7

FFT Vibration Analyzers

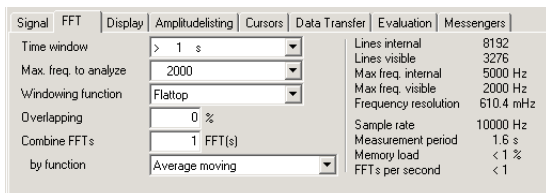
VibroMatrix®



Simultaneous analysis of up to 4 signals, phase display switchable



Simple signal conditioning and automatic mode

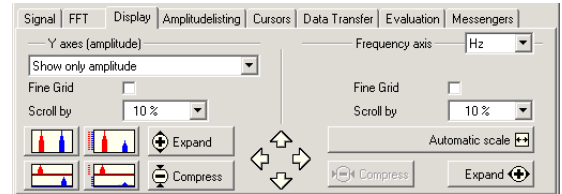


Manual mode for purposeful FFT setting

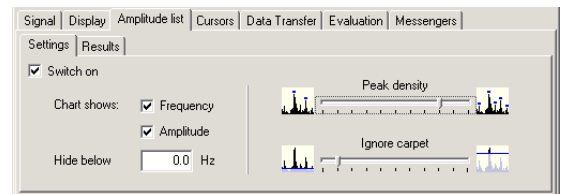
Application

For the frequency analysis of vibrations, the InnoAnalyzers are applied. Rotating parts in drives, gears, pumps, fans and many other technical products cause perturbing vibrations. Often, numerous parts with different rotation speed cause mechanical vibrations so that a superposition of frequencies is generated.

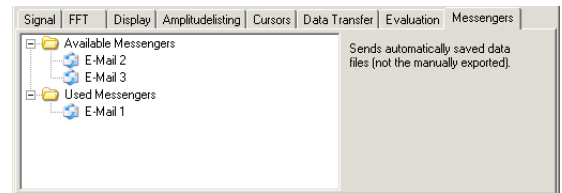
InnoAnalyzers decompose this superposition into the different frequency components again by Fourier-transformation. So you can detect the parts which are primarily responsible for the vibrations. As a consequence, mechanical malfunctions are precisely and quickly tracked down in development, quality control or service. The success of measures to reduce vibrations is proven measurably.



Arrange, zoom, compress graphs acc. to your demands



Configure automatic amplitude detection



Signal measured data and events outward

Properties

The InnoAnalyzers are universal vibration analyzers for vibration acceleration respectively also vibration velocity and displacement (Pro version).

In the automatic mode, you just define the required frequency range and select optimization for either magnitude or frequency – that's all. On the other hand, many more parameters are available for experienced users so that they can configure the analysis according to their specific demands.

The high number of lines of more than 500 000 FFT lines allows a frequency resolution of up to 0.01 Hz. Switching the frequency axis from Hz to 1/min simplifies the allocation to rotating parts.

Amplitudes are detected and listed up automatically, values are also displayed in the graphic when required.

Additionally, two differently colored cursors with value display support you during the analysis. The export of the curves into other applications as graphic or as pairs of values in text format is easily possible.

Frequency analyses can be carried out continuously as well as - e.g. for bump tests - in response to a triggered time signal. In this case, the InnoAnalyzer is working together with the InnoScope.

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

Technical Data

	InnoAnalyzer Pro	InnoAnalyzer
Signal Processing		
Measurands Y-axis	AC voltage Vibration acceleration Vibration velocity Vibration displacement	AC voltage Vibration acceleration
Units Y-axis	V, mV, μ V, nV, pV m/s ² , mm/s ² , μ m/s ² , nm/s ² , pm/s ² , g, mg, μ g, dB m/s, mm/s, μ m/s, nm/s, pm/s, in/s, dB m, mm, μ m, nm, pm, in, dB	V, mV, μ V, nV, pV m/s ² , mm/s ² , μ m/s ² , nm/s ² , pm/s ² , g, mg, μ g, dB
Parameters Y-axis	Peak value, true r.m.s., phase	
Variables X-axis	Frequency / rotation speed	
Units X-axis	Hz / min ⁻¹	
Frequency Range	Freely adjustable 0 .. 40000 Hz **	
Frequency Resolution	< 0.01 Hz	
Windowing	Rectangle, Bartlett, Blackman, Hamming, Hann, Flattop	
Overlapping	0 .. 99.9%	
Combining FFTs	Peak value from start on (peakhold), peak value moving, average from start on, average moving	
Number of lines	2 .. 524288	
Graphical Presentation		
Number of Graphs	1 .. 4 for amplitude and 1 .. 4 for phase per window	
Refresh	1 .. 16 times per second *	
Interval Y-axis (amplitude)	0.1 .. 10000	
Interval Y-axis (phase)	0 .. 360 °, 180 ° .. + 180 °	
Interval X-axis (Frequency)	10 .. 40000 Hz **	
Interval X-axis (Rotation Speed)	600 .. 2 400 000 min ⁻¹ **	
Indicators	Sensor, measuring channel, measurand, parameter, gain, underload, overload, data fill level	
Recommended Screen Resolution	From 800 x 600 pixels on	
Cursors		
Presentation	2 lines, optionally freely adjustable by mouse or button	
Numeric Cursor Data	For each cursor as well as for difference cursor 2 - cursor 1	
Numeric Cursor Refresh	1.. 4 times per second *	
Data Export		
Control	Manual or time triggered	
Formats	Bitmap, PNG, Enhanced Meta File (EMF), Text	
Destination	In clipboard or file	
Event Notification		
E-Mail	Trigger initiates transfer of exported measurement data	
Miscellaneous		
Amplitude List	1 .. 20 amplitudes (search sensitivity adjustable), sorting acc. to magnitude or frequency	
Available in a Kit	VMSset-03..07	-
General Functions	Measured value is held after switch off, instrument is cloneable	

* Centrally managed in the InnoMaster

** When working with InnoBeamer L2: Upper frequency limit 2000 Hz = 120 000 min⁻¹

Changes without prior notice

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— D e u t s c h l a n d —

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