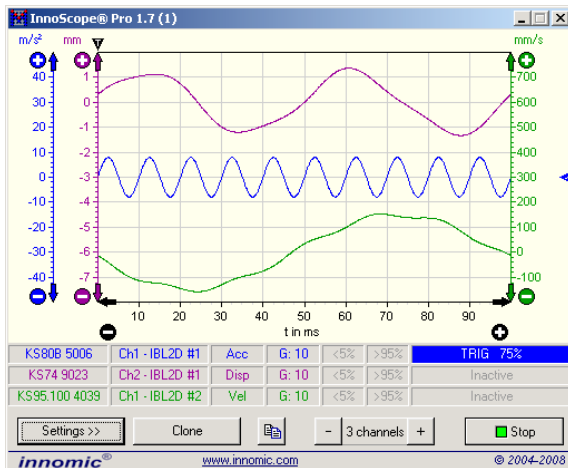




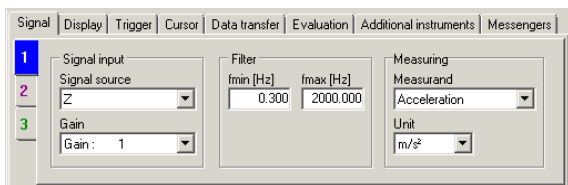
InnoScope® 1.7

Digital Oscilloscopes

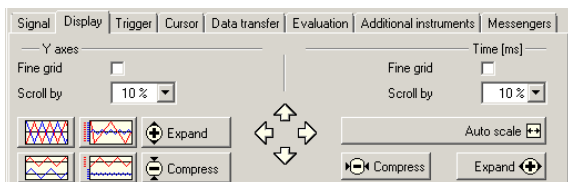
VibroMatrix®



Simultaneous display of up to 4 graphs



Numerous settings for signal conditioning



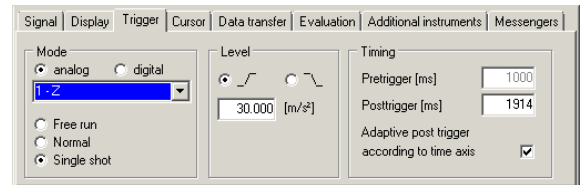
Arrange, zoom, compress graphs acc. to your demands

Application

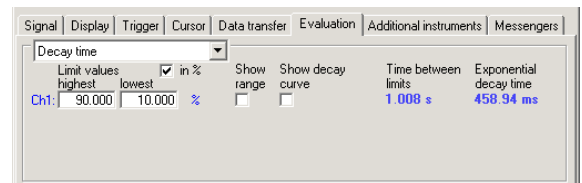
The InnoScopes allow the signals' shape analysis of fast vibration and shock processes in time domain. These processes can be displayed in detail, measured and exported for documentation or post-processing.

Thus, e.g. construction parts which are exposed to impulse-like loads can be optimized. Automated evaluations determine e.g. the HIC (Head Injury Criterion) directly after the measurement, but also parameters of decay processes. Combined with the InnoAnalyzer, natural frequencies can be determined.

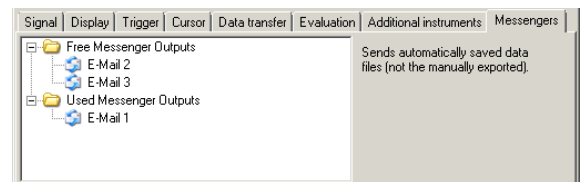
Likewise, InnoScopes reliably display sporadically or periodically occurring events.



Analog and external digital trigger source



Automated signal evaluations



Signal measured data and events outward

Properties

The InnoScopes are universal digital oscilloscopes. The Pro Version is able to process not only vibration acceleration, but also vibration velocity and displacement. Furthermore, the Pro Version allows the automated evaluation of measured data.

Up to 4 curves can be displayed in one InnoScope. They can represent both, signals of different sensors and signals of the same sensor but measured with different parameters.

The InnoScopes have a high memory depth. The acquired signal can be recorded with full resolution 1 second before and until up to 110 seconds after the trigger event with full resolution of 10 μ s.

For evaluation, 2 cursors are available. Time and measured values as well as differences at the cursor position are presented numerically.

The export of data as graphic or text provides additional fields of application. The InnoScope can even carry out this export automated when triggering and then send this file via e-mail by means of the messenger function.

Technical Data

	InnoScope Pro	InnoScope
Signal Processing		
Filter	Freely adjustable 0.1 .. 40000 Hz **	
Measurands	AC voltage Vibration acceleration Vibration velocity Vibration displacement	AC voltage Vibration acceleration
Units	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
Trigger		
Modes	Free run, normal, single shot	
Source	Analog or digital channel	
Edges	Falling, rising	
Level	Freely adjustable \pm 10000	
Pretrigger	1 s	
Posttrigger	0.001 .. 110 s	
Graphical Presentation		
Number of Graphs	1 .. 4 per window	
Interval Y-axis	0.01 .. 10000	
X-axis (Time)	1 ms .. 11000 ms / Resolution 0.1 ms	
Refresh	1.. 16 times per second *	
Indicators	Sensor, measuring channel, measurand, gain, underload, overload, trigger status	
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 difference cursor 2 - cursor 1	
Numeric Cursor Refresh	1.. 4 times per second *	
Data Export		
Control	Manual or automatic after trigger	
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		
Coupling	Yes, with the InnoAnalyzer	
Available in a Kit	VMSet-03..07	-
General Functions	Measured value is held after switch off, instrument is cloneable	

* Centrally managed in the InnoMaster

** 0.3 .. 2000 Hz when working with InnoBeamer L2

Changes without prior notice

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— D e u t s c h l a n d —

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