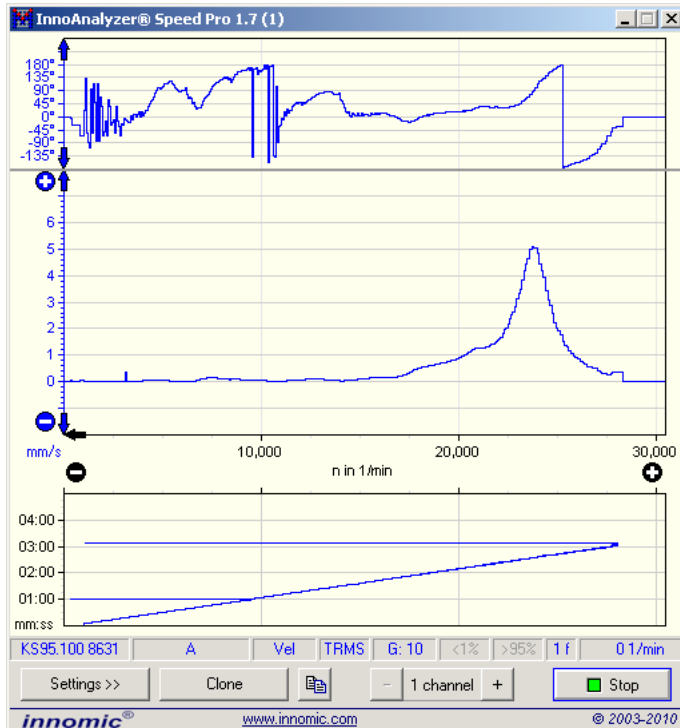




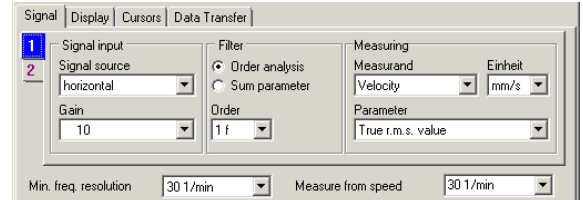
# InnoAnalyzer® Speed 1.7

## Run-up/Coast-down Tracking Analyzers

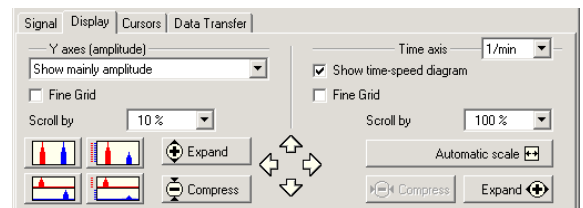
VibroMatrix®



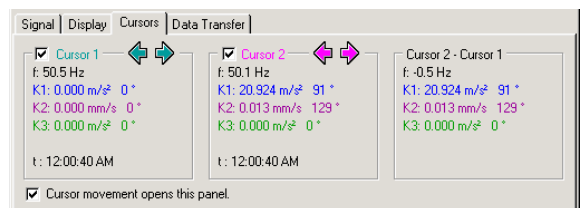
Magnitude and phase visible as well as progression of rotational speed



Simple signal conditioning



Arrange, zoom, compress graphs acc. to your demands



2 cursors, display data under cursor and difference

### Application

Rotating parts in drives, gears, pumps, fans and many other technical products cause perturbing vibrations. Different rotation speeds cause different vibrations since the measurement objects develop or do not develop resonant behaviour at certain rotation speeds.

These differences become obviously in run-up or coast-down measurements. A rotor changes its rotation speed when run up or coast down and excites the whole system at different frequencies.

The InnoAnalyzers Speed measure the vibration level and phase angle at the rotation speed or a multiple and graphically display them at the respective rotation speed. This way, for instance resonant rotation speed levels are detected. The progression of the rotation speed is displayed graphically as well.

For rotation speed detection, different photoelectric reflex switches and contrast scanners are directly supplied by the InnoBeamer and their signal is read. Optionally, an existing rotation speed signal can be fed as pulse/revolution.

### Properties

The InnoAnalyzers Speed in Standard and in Pro Version not only master order-tracked filtering but also band-pass filtering of the vibration signal and display result as overall value in dependence on rotational speed. In addition to vibration acceleration, the Pro version is also able to analyze vibration velocity and vibration displacement.

Two cursors are available for evaluation. They can be moved freely or positioned precisely by button. Measured data at the cursor position is presented numerically.

The clone function makes it possible to operate several InnoAnalyzers at the same time. For example vibrations can be analyzed at the rotation speed and at a multiple of the rotation speed at the same time.

The export of data into other applications as bitmap/PNG file for documentation or as text for further examination provides additional fields of application.

# Technical Data

	InnoAnalyzer Speed Pro	InnoAnalyzer Speed
<b>Signal Processing</b>		
Measurands Y-axis	AC voltage Vibration acceleration Vibration velocity Vibration displacement	AC voltage Vibration acceleration
Units Y-axis	V, mV, $\mu$ V, nV, pV m/s <sup>2</sup> , mm/s <sup>2</sup> , $\mu$ m/s <sup>2</sup> , nm/s <sup>2</sup> , pm/s <sup>2</sup> , g, mg, $\mu$ g, dB m/s, mm/s, $\mu$ m/s, nm/s, pm/s, in/s, dB m, mm, $\mu$ m, nm, pm, in, dB	V, mV, $\mu$ V, nV, pV m/s <sup>2</sup> , mm/s <sup>2</sup> , $\mu$ m/s <sup>2</sup> , nm/s <sup>2</sup> , pm/s <sup>2</sup> , g, mg, $\mu$ g, dB
Parameters X-axis	Peak value, true r.m.s.	
Rotation Speed Multiples	0.5 as well as 1 .. 12	
Measurands X-axis	Frequency / Rotational speed	
Units X-axis	Hz / min <sup>-1</sup>	
Frequency Range	Freely adjustable 0.1 .. 40 000 Hz **	
Frequency Resolution	From 0.1 Hz on = 6 min <sup>-1</sup>	
<b>Graphical Presentation</b>		
Number of Graphs	1 .. 4 per window	
Refresh	1 .. 16 times per second *	
Interval Y-axis	0.01 .. 10000	
Interval Phase-axis	0 .. 360 ° / -180 .. +180 ° / 0 .. 3600 ° (switchable)	
Interval Time-axis	1 min .. 14 days	
X-axis (Frequency)	0 .. 40 000 Hz **	
X-axis (Rotation Speed)	0 .. 2 400 000 min <sup>-1</sup> **	
Indicators	Sensor, measuring channel, measurand, parameter, gain, underload, overload	
Recommended Screen Resolution	From 1024 x 768 pixels on	
<b>Cursors</b>		
Presentation	2 lines, optionally freely adjustable by mouse or button	
Numeric Cursor Data	For each cursor as well es for difference cursor 2 - cursor 1	
Numeric Cursor Refresh	1.. 4 times per second *	
<b>Data Export</b>		
Control	Manual or time triggered	
Formats	Bitmap, PNG, Enhanced Meta File (EMF), Text	
Destination	In clipboard or file	
<b>Miscellaneous</b>		
Available in a Kit	VMSset-03..07	-
General Functions	Measured data is held after switch off, instrument is cloneable	

\* Centrally managed in the InnoMaster

\*\* When working with InnoBeamer L2: Maximum frequency 2000 Hz, maximum rotation speed 120 000 min<sup>-1</sup>

Changes without prior notice

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— D e u t s c h l a n d —

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