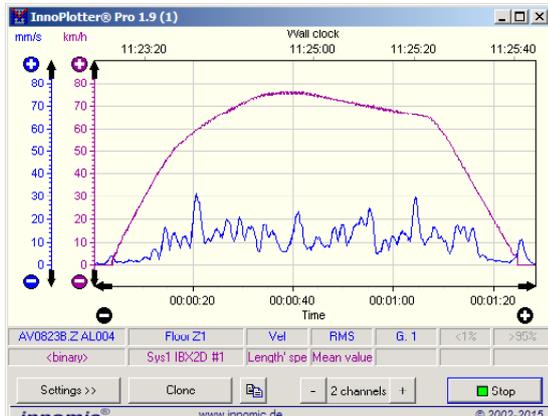


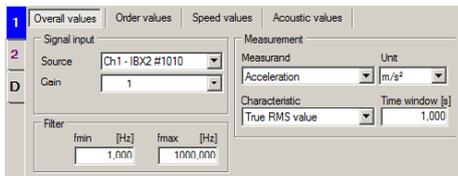


InnoPlotter® 1.9

Digital Strip Chart Recorder



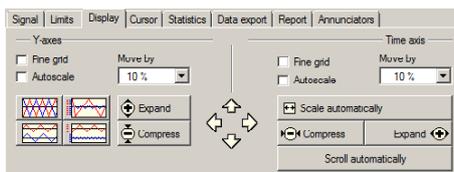
Simultaneous display up to 4 graphs, different measurands



Numerous settings for signal conditioning



Warning/alarm limit for monitoring characteristics

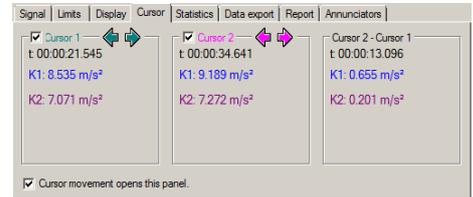


Arrange, zoom, compress graphs individually

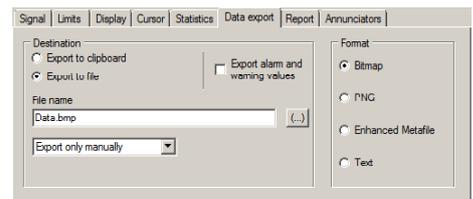
Application

Vibrations are caused by rotating parts or impulse-like loads, e.g. by a vibratory pile driver in the construction-field. In numerous vibration standards significant vibration characteristics and limit values are defined for a reliable evaluation of the vibration situation.

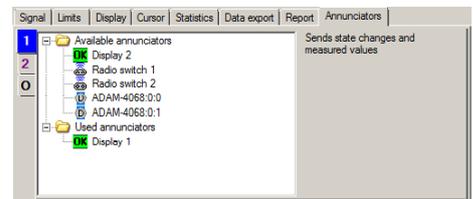
The InnoPlotters measure these vibration characteristics, display their trend graphically and monitor them when required. Thus, they are especially convenient for longer test sequences. Weak spots in the continuous operation become obvious, the success of counter measures is proven and the compliance with limits is controlled.



2 cursors, display of cursor data and difference



Data export by mouse click or automated



Annunciation of measured data and events

Properties

The InnoPlotter is a universal digital strip chart recorder for up to four characteristics. It features a memory for 24 hours continuous recording and various display modes. 2 time axes are available for the absolute time and the elapsed time since the start of measuring.

The Pro version is able not only to integrate vibration acceleration to vibration velocity and displacement, but also to measure rotation speed and user measurands. Optional monitoring of characteristics is offered as well.

The following settings are available for signal conditioning:

- Free filter adjustment 0.1 .. 40000 Hz
- SI and imperial units for each measurand
- 25 characteristics

2 cursors allow the exact measurement of the data. Measurement graphs can be moved and spread manually or be arranged automatically. Time bar can be moved depending on the progress of the measurement.

The export of data into other applications as graphic or text is possible without any problems. Saving measured data can be carried out manually or triggered. By means of annunciator function, the InnoPlotter can forward measured data or events automatically, e.g. by e-mail.



Technical Data

	InnoPlotter Pro	InnoPlotter
Signal Processing		
Filter	Freely adjustable 0.1..40 000 Hz **	
Time Window	Freely adjustable 0.1..10 s	
Measurands	Alternating measurands: Vibration acceleration, velocity, displacement; force, pressure, sound pressure, voltage, user-defined measurands	
	Rotation speed, phase angle, noise weighted	
Integrated Measurands	Acceleration → Velocity and 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 kN, N, mN, μN, nN, lb, oz bar, mbar, MPa, kPa, hPa, Pa, mPa, μPa, nPa, psi V, mV, μV, nV, pV A, mA, μA, nA, pA	
	1/min, 1/s, Hz, 1/h Hz, kHz % °	
Characteristics	Overall values: Instantaneous value, peak value absolute / positive / negative, peak-to-peak value, true r.m.s. value, main frequency, harmonic distortion, crest factor Order values: Peak value, r.m.s. value, phase angle Speed values: Mean value, instantaneous value Acoustic values: Noise level with A- and C-weighted frequency (peak / fast / slow time weighted, equivalent continuous noise); noise level unweighted (fast / slow time weighted); daily noise exposure level	Overall values: Instantaneous value, peak value absolute / positive / negative, peak-to-peak value, true r.m.s. value
Monitoring	Free alarm limit, warning limit 0..100% of alarm limit	
Statistics	Mean value, minimum, maximum	
Graphical Presentation		
Number of Measurement / Limit Graphs	1 .. 4 per window / 0 .. 8 per window	
Interval Y-axis / t-axis	0.01 .. 10000 / 6 s .. 24 h	
Digital Channel	Display of the variation in time of the trigger status (switchable, one measuring channel)	
Refresh	1 / 8 / 16 times per second *	
Status Indicators	Sensor, measuring channel, measurand, characteristic, gain, underload, overload	
Cursors	2 lines, freely adjustable by mouse or button, display of cursor values and difference	
Data Export		
Control	Manually, time-triggered, level-triggered	Manually, time-triggered
Formats / Destinations	Bitmap, PNG, Enhanced Meta File (EMF), text / Clipboard, file	
Event Annunciators		
Display	Single channel: Currently measured value Single channel: Current alarm state Instrument: Current alarm state	Single channel: Currently measured value
Radio Switch	Single channel: Current alarm state Instrument: Current alarm state	-
Digital Output	Single channel: Current alarm state Instrument: Current alarm state	-
E-Mail	Time-triggered transfer of measurement data Level-triggered transfer of measurement data	Time-triggered transfer of measurement data
Miscellaneous		
Available in a Kit	VMSset;-03;-04;-05; VMSset-25	
General Functions	Measurement data is held after switching off, module is cloneable	

* Centrally managed in the InnoMaster

** 0.1 .. 3200 Hz when working with the InnoBeamer LX2

Changes without prior notice

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