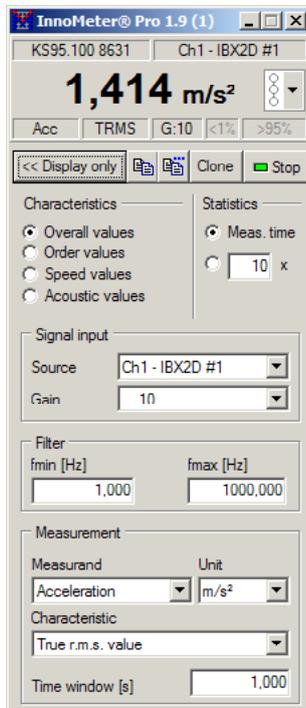


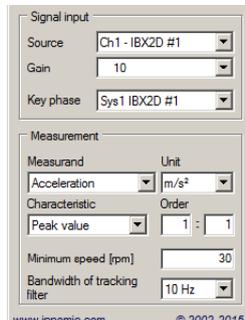


InnoMeter® 1.9

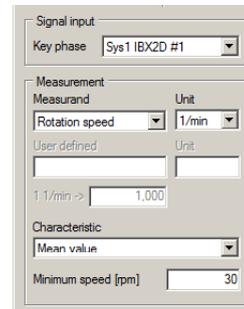
Vibration Meter with Numerical Display



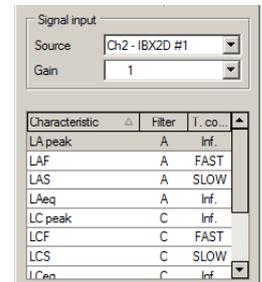
InnoMeter Pro:
Overall values



InnoMeter Pro:
Order values



InnoMeter Pro:
Speed values



InnoMeter Pro:
Acoustic values

Application

When vibrations have to be measured as significant characteristics, InnoMeters are applied.

Rotating parts in drives, gears, pumps, fans and many other technical products cause vibrations. Recurring impacts like construction operations or vehicular traffic cause perturbing vibrations as well.

Numerous standards, e.g. DIN 10816 or the machinery directive, define significant vibration characteristics for a reliable evaluation of vibration and sound.

The InnoMeters measure these characteristics precisely and thus allow a reliable assessment of the vibration state. The InnoMeters are applied in the complete product cycle – development, manufacturing, final inspection. Weak spots are discovered, the success of counter measures is proven and the compliance with limits is controlled.

Properties

The InnoMeters are universal measuring instruments for characteristics of vibration, sound and further mechanical and electrical measurands. They can be adapted to characteristics from numerous standards and directives. For instance, the InnoMeter Pro features:

- Measurands: acceleration, velocity, displacement, rotation speed, user-defined measurands
- SI and imperial units for each measurand
- Free filter adjustment 0.1 .. 40000 Hz
- 25 characteristics

Additional to overall values, the InnoMeter Pro offers order values for the measurement on rotating machines: Magnitude and phase angle can be displayed for adjustable orders. Fractional orders, e.g. from gear ratios, can be entered as well. The InnoMeter Pro can also display the rotation speed, which can be converted into other units as well, for instance to display length' speeds.

Sound measurements acc. to the machinery directive are, among others, supported in the InnoMeter Pro by means of the characteristics LEX,8h and LC,peak.

Status information concerning the measurement quality, like over- or underload, is always indicated.

The clone function makes it possible to operate several InnoMeters at the same time, for example to measure several characteristics simultaneously.

The measured values can be copied into other programs for documentation.

Technical Data

	InnoMeter Pro	InnoMeter
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, Schall bewertet	
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 (Rotation speed) Hz, kHz (Main frequency) % (Harmonic distortion) ° (Phase angle)	
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
Graphical presentation		
Display	5 digits 0.001 .. 99999	
Refresh	1.. 4 times per second *	
Status indicators	Sensor, measuring channel, measurand, characteristic, gain, underload, overload	
Miscellaneous		
Available in a Kit	VMSet;-03;-04;-05	-
General Functions	Measured value is held after switching off, module is cloneable, measured values can be copied to clipboard	

* Centrally managed in the InnoMaster

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

Changes without prior notice

February 2021

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