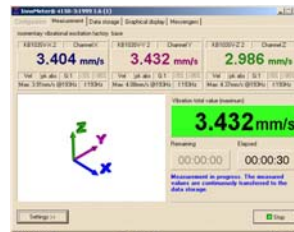




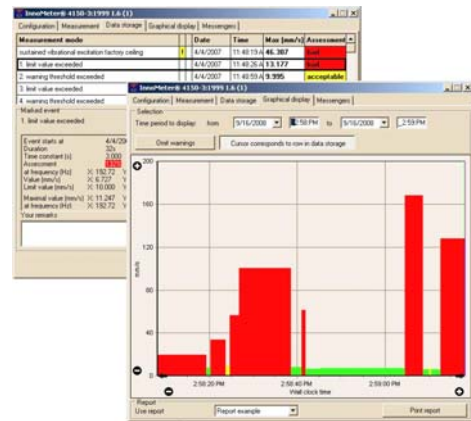
InnoMeter® 4150-3 Vibration Measurements on Buildings



Select the measurement mode



Start the measurement



Automatic data storage and evaluation

Application

The InnoMeter 4150-3 is designed for the measurement of vibrations on buildings acc. to DIN 4150-3 and SBR.

Vibrations from heavy building activities, traffic, machine operation or also detonations affect existing building stock. The InnoMeter 4150-3 measures these vibrations, evaluates acc. to the standard immediately and can inform about the occurred vibrations at any time.

For this purpose, a triaxial vibration sensor is assembled at the building. Its signals are transferred via InnoBeamer signal converters to the computer, where the InnoMeter 4150-3 is installed.

Properties

The InnoMeter 4150-3 combines vibration measurement, evaluation and display of results in one instrument. The most important characteristic: A report can be printed at any time since the evaluation takes place simultaneously with the measurement. Circuitous data transfer is not required here. You are ready for giving a statement immediately and at any time.

In the German standard DIN 4150-3 the main frequency is an important parameter as it determines the maximum allowable vibration level. The main frequency recognition is a problem for many instruments but not for InnoMeter 4150-3: It features permanently active, automatic frequency recognition and thus achieves exact results.

The measured data is available in differently detailed levels: You can see the overall status at once, but you are able to display more details concerning interesting events progressively. Detail depth reaches up to the recorded high-resolution vibration signal. This way, analysis with additional software can be carried out easily.

When it comes to printing a record, the detail depth can be selected as well. The most important data incl. the measurement curve fits on one A4 page. If required, the single events are printed as well. The period for the report to be printed can also be selected.

Automatic transmission of measurement results via email or notification of outsiders about alarms for instance via signal lamps is possible as well.

Specification

Model	InnoMeter 4150-3 Pro	InnoMeter 4150-3
Signal processing		
Filter	Butterworth filter acc. to the standard with 40 dB/decade, selectable 1 ... 80 Hz and 1 ... 315 Hz	
Measurand	Vibration velocity (vibration severity) in mm/s	
Parameter	Peak value of vibration velocity, instantaneous main frequency	
Measurements duration	Selectable 10 s ... infinitely	
Graphical presentation		
Numeric display	5 digits: 0.001 ... 99999	
Refresh	1 ... 4 times per second *	
Status indicators	Sensor, measuring channel, measurand, parameter, gain, underload, overload	
Recommended screen resolution	From 800 x 600 pixels on	
Data acquisition, storage, presentation		
Measurement modes	<ul style="list-style-type: none"> - Sustained vibrational excitation / Momentary vibrational excitation: - Industrial / residential / listed buildings - Pipelines: Steel / concrete / plastics 	
Measurement	<ul style="list-style-type: none"> - User guide - Choice of the measurement mode - Indication of elapsed and remaining measurement duration - Indication of the peak value for all axes incl. main frequency for all axes - Indication of the maximum vibration value so far incl. respective main frequency - Indication of the vibration total value (maximum of the 3 axes) 	
Data storage	<ul style="list-style-type: none"> - Data storage of up to 100000 events with much detailed data per event - For marked measurements: indication of detailed data - For each measurement remarks can be noted - Saving and re-import of the data in CSV format - Printing of a measurement report, use of own templates 	
Integrated graphical evaluation		
Data developing	<ul style="list-style-type: none"> - Expanding and compressing of both Y and time axis. - Y axis selectable: absolute value in mm/s or relative to limit value in % - Time period to be selected by input boxes - Warnings can be omitted - Cursor can be activated, movable by mouse, runs synchronously with the event in data storage - Report printing for selected period, use of own templates is possible 	
Single event analysis	<ul style="list-style-type: none"> - Signal waveform of velocity - Automatic indication of the waveform maximum - Frequency analysis of the event - Automatic indication of the frequency analysis maximum - Event evaluation in a DIN 4150-3 limit value graph 	-- -- -- -- --
Event messengers		
Large screen	Indication of the total vibration value and the single measurement evaluation in traffic light colours	
Radio switching socket	Binary signalling of the single measurement evaluation (good/bad)	
Digital output	Binary signalling of the single measurement evaluation (good/bad)	
E-mail	Forwarding of the total vibration value and the single measurement evaluation, periodic transfer of the data storage	
Miscellaneous		
Available in a kit	MK-VIB-Set-23P, MK-VIB-Set-24P	MK-VIB-Set-23, MK-VIB-Set-24
General functions	Instrument is cloneable	
* Centrally managed in InnoMaster		

Our policy is to improve specification of our products continuously, so technical and production details can be changed without any notice.