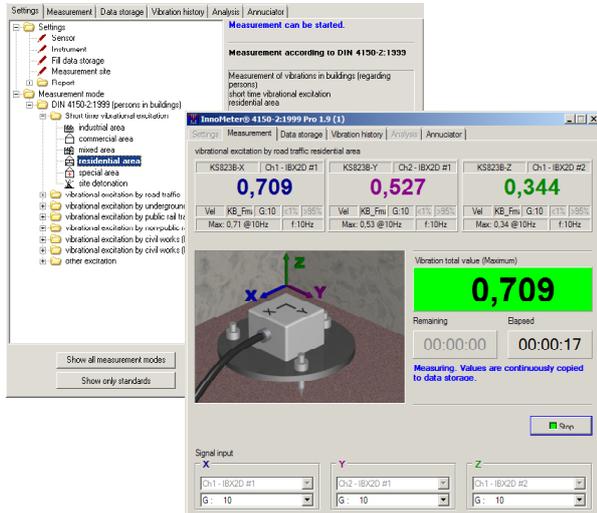


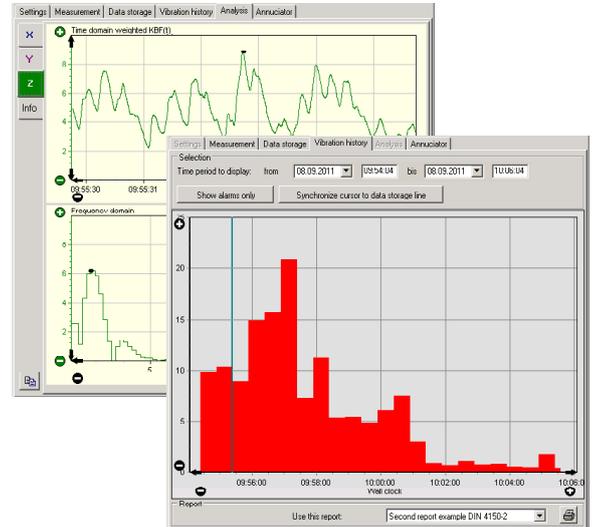


InnoMeter® 4150-2 1.9

Vibration effects on persons in buildings



Clearly arranged selection and execution of the measurement



Graphical event overview and event analysis

Measurement mode	Date	Time	Max	Assessment
vibrational excitation by road traffic mixed area	22.02.2013	10:31:24	3,144	bad
1. guide values observed	22.02.2013	10:31:24	0,873	good
2. guide values observed	22.02.2013	10:31:24	2,094	good
3. guide values observed	22.02.2013	10:32:24	3,144	good
4. guide values exceeded	22.02.2013	10:32:24	3,141	bad

Automatic event storage

Application

The InnoMeter 4150-2 is designed for the measurement of vibrations in buildings assesses the effect on persons acc. to DIN 4150-2.

Persons in buildings are exposed to vibrations from heavy building activities, traffic, machine operation or also detonations. The InnoMeter 4150-2 measures these vibrations, immediately evaluates them acc. to the standard and informs about the occurred vibrations and their permissibility at any time.

Suitable kits incl. sensors and signal converters for connection to your own computer are available: VMSet-22(P) and VMSet-24(P).

Properties

The InnoMeter 4150-2 combines vibration measurement, automatic evaluation and presentation of results in one instrument. The most important characteristic: A report can be printed at any time since the evaluation is carried out simultaneously with the measurement. Circuitous data transfer is not required here. You are ready for giving a statement at any time.

The German standard DIN 4150-2 describes a multi-level system for deciding whether vibrations have a troubling effect on humans in buildings or not. The InnoMeter 4150-2 runs through this decision tree with the currently measured values. Based on these facts, it provides immediate assessment for the harassments.

You simply select the measurement mode and the type of area. Click the start button and and off you go!

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.

When it comes to printing a record, the detail depth can be selected as well. The most important data incl. the measurement graph 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 e-mail or notification of outsiders about alarms for instance via signal lamps is possible as well.



Technical Data

	InnoMeter 4150-2 Pro	InnoMeter 4150-2
Signal Processing		
Filter	Butterworth filter acc. to the standard with 40dB/decade, 1..80 Hz; frequency weighting filter acc. to DIN 4150-2	
Measurand	Weighted vibration severity acc. to DIN 4150-2	
Characteristics	Maximum weighted vibration severity KB_{Fmax} and KB_{FTr} value	
Measurement Duration	Adjustable 30 s .. infinitely	
Graphical Presentation		
Numeric Display	5 digits: 0.001 .. 99999	
Refresh	1..4 times per second (centrally managed in InnoMaster)	
Status Indicators	Sensor, measuring channel, measurand, characteristic, gain, underload, overload	
Data Acquisition, Storage and Presentation		
Measurement Modes	<ul style="list-style-type: none"> - Short-time vibrations / vibrations caused by rail traffic / vibrations caused by civil works / other vibrations in: - Industrial / commercial / mixed / residential / special areas 	
Measurement	<ul style="list-style-type: none"> - User guide - Selection of the measurement mode - Selection of the location - Indication of elapsed and remaining measurement duration - Indication of the maximum weighted vibration severity KB_{Fmax} for all axes - Indication of the current main frequency for all axes - Indication of the vibration total value (maximum of the 3 axes) 	
Automated Evaluation	Calculation of KB_{Fmax} and KB_{FTr} value already during measurement and comparison with guide values A_u , A_o , A_r acc. to the standard. Indication in traffic light colors.	
Data Storage	<ul style="list-style-type: none"> - Data storage of up to 100000 events with detailed data for each time interval - For marked measurement: Indication of KB_{FTr} and further measurement values, evaluation - You can note own remarks for each event - Saving and reload measured values in CSV format - Printing a report about overall assessment, individual report templates can be configured 	
Integrated Graphical Evaluations		
Vibration History	<ul style="list-style-type: none"> - Expanding and compressing both Y- and time-axis - Y-axis optionally as absolute values or relative to the limit value in % - Time period to be selected by input boxes - Warnings can be displayed/omitted - Cursor available, movable by mouse, runs synchronously with the time interval in the data storage - Printing a report about the selected time period, individual report templates can be configured 	
Analysis Single Event	<ul style="list-style-type: none"> - Signal progression of weighted vibration velocity - Automatic marking of the maximum in the signal progression - Frequency analysis of the time interval 	-
Event Annunciators		
Display	Display of total vibration value as well as evaluation of single measurement in traffic light colors	
Radio Switch	Binary signaling of single measurement's evaluation (good/bad)	
Digital Output	Binary signaling of single measurement's evaluation (good/bad)	
E-Mail	<ul style="list-style-type: none"> - Transfer of total vibration value as well as evaluation of single measurement - Cyclic transfer of the data storage 	
Miscellaneous		
Available in a Kit	VMSet-22, VMSet-24	
General Functions	module is cloneable	

Changes without prior notice

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