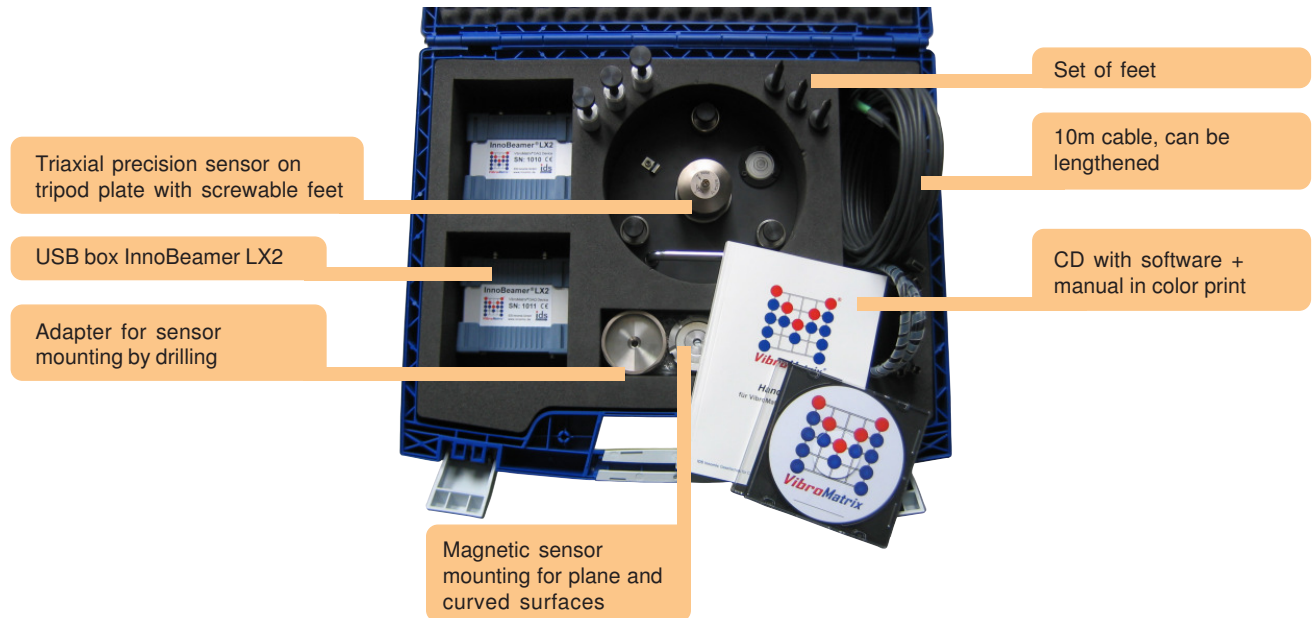




VibroMatrix® Kit

Measuring Building Vibration

VibroMatrix®



The VMSet-22, -23 and -24 come in a handy case and provide you with everything you need for the measurement of vibrations on buildings acc. to DIN 4150.

Vibrations in all three axes can be measured simultaneously. The complete solution offers more than small hand-held units:

- The program guides you through the measurement reliably, with clear indications and graphics.
- Measured values as well as an assessment (red / yellow / green) are already indicated during the measurement.

- Each measurement is automatically transferred to the data storage with time stamp and can be completed with your own remarks.
- Alarm by e-mail, lamps or horns can be added.
- The Pro version additionally offers displaying the signal course and a frequency analysis of each event. Thus, each exceedance can be followed in detail if required.

	VMSet-22	VMSet-22P	VMSet-23	VMSet-23P	VMSet-24	VMSet-24P
Hardware						
Sensor for Vibration Measurement	- 1x Piezoelectric accelerometer, shear design - Sensitivity: 500 mV/g, linear frequency range: 0.07 .. 6000 Hz - Operating temperature: -30 .. 90 °C - Accessories: Clamping magnet, wall adapter, tripod plate with screwable feet, 10m cable, cable adapter to 3x BNC					
USB Box for Digitization	- 2x InnoBeamer LX2 - Inputs: 2x analog for vibration sensor(s), 1x digital for photoelectric reflex switch - Signal frequency: 0.1 .. 3200 Hz - Supply current: < 500 mA with supply of all sensors - no mains adapter required - Operating temperature: -20 .. 50 °C, weight: 350 gr. - Accessories: 1.8m USB cable					
Software Licenses						
InnoMeter 4150-2	3x	3x Pro	-	-	3x	3x Pro
InnoMeter 4150-3	-	-	3x	3x Pro	3x	3x Pro

Technical Data

	InnoMeter 4150-3 Pro	InnoMeter 4150-3
Signal Processing		
Filter	Butterworth filter acc. to the standard with 40dB/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	
Measurement duration	Selectable 10 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, parameter, gain, underload, overload	
Recommended Screen Resolution	From 800x600 pixels on	
Data Acquisition. Storage and Presentation		
Measurement Modes	<ul style="list-style-type: none"> - Sustained vibrational excitation / Short-time 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 detailed data for each event - You can note own remarks for each event - Saving and reload measured values in CSV format - Printing a report about single event, individual report examples 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 in mm/s 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 event in the data storage - Printing a report about the selected time period, individual report examples can be configured 	
Analysis Single Event	<ul style="list-style-type: none"> - Signal progression of vibration velocity - Automatic marking of the maximum in the signal progression - Frequency analysis of the event - Automatic marking of the maximum in the frequency analysis - Evaluation of the event in the InnoMeter 4150-3 limit-value-graphic 	-
Event Notification		
Extra 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 as a Kit	VMSet-23P VMSet-24P	VMSet-23 VMSet-24
General Functions	Instrument is cloneable	

Changes without prior notice

October 2011

— D e u t s c h l a n d —

IDS Innomic
Gesellschaft für Computer- und Messtechnik mbH
Zum Buchhorst 25
29410 Salzwedel

Tel. (03901) 305 99 50
Fax (03901) 305 99 51
email info@innomic.de
Internet www.innomic.de

— I n t e r n a t i o n a l —

IDS Innomic GmbH
Zum Buchhorst 25
D-29410 Salzwedel
Germany

Tel. +49 (3901) 305 99 50
Fax +49 (3901) 305 99 51
email info@innomic.de
Internet www.innomic.com