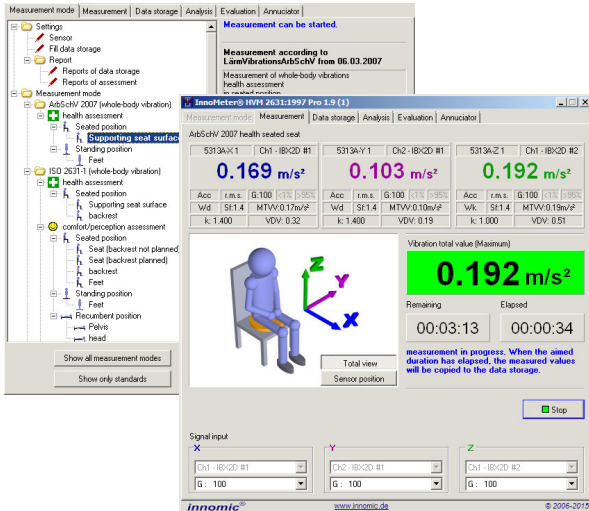
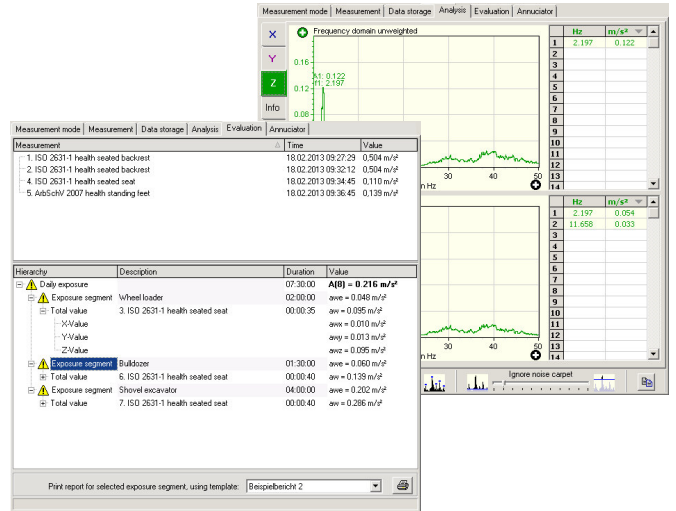


InnoMeter® HVM 2631 1.9

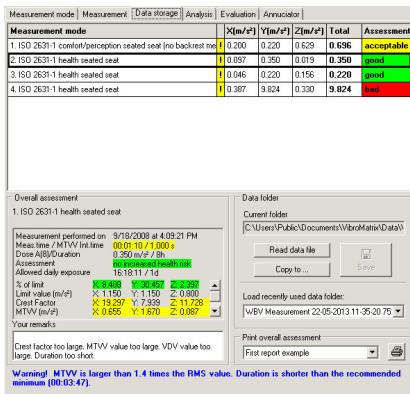
Human Whole-Body Vibration Measurement



Clearly arranged selection and execution of the measurement



Integrated frequency analysis and calculator for daily vibration exposure



Automatic data storage

Application

The InnoMeter HVM 2631 was developed for the measurement of whole-body vibrations according to EN ISO 2631:1997 and directive 2002/44/EC.

If strong vibrations are transmitted to human beings, a decreased performance and even diseases might develop. For this reason, divers guidelines stipulate measurements acc. to EN ISO 2631, which assesses the vibration impact on human beings.

Furthermore, the InnoMeter HVM 2631 is applied for an objective vibration assessment with regard to comfort aspects.

For a measurement conforming to standards, a sensor is positioned between the person and seat. The signals are transferred to the measurement software in real-time.

Properties

Compared to usual hand-held instruments, the InnoMeter HVM 2631 possesses a user guide. The user is guided through the measurement from the choice of measurement mode to the evaluation of measurement's results. Graphical drawings for sensor positioning ease multi-axial measurement and ensure a correct application of the standard.

Acc. to the standard, the InnoMeter 2631 is designed for three channels. The required measurands and weighting filters are integrated. By simply choosing the measurement mode, parameters are adjusted automatically acc. to the standard.

The following calculations are integrated as well so that single measurements are clearly evaluated with traffic light colors even while measuring.

Measurements can be saved, exported and read into again. In the calculation sheet, several measurements can simply be combined to a daily vibration exposure by drag & drop. The powerful report-function enables you to generate reports at the push of a button.

The Pro-Version additionally includes frequency analysis for both, the unweighted vibration signal and the signal weighted acc. to considerations concerning occupational health. This way, responsible components are quickly detected and vibration causes are eliminated purposefully.

Technical Data

	InnoMeter HVM 2631:1997 Pro	InnoMeter HVM 2631:1997
Signal Processing		
Filter	W_b, W_c, W_d, W_f, W_k and W_m filter acc. to the standard	
Measurand, Unit	Vibration acceleration in m/s^2	
Parameters	Simultaneous (!) measurement of Interval rms value, crest factor, maximum rms (MTVV), vibration dose value (VDV)	
Measurement duration	Adjustable 1 s .. 1 day	
Graphical Presentation		
Numeric Display	5 digits: 0.0001 .. 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 and Presentation		
Measurement Modes	<ul style="list-style-type: none"> - Whole-body vibration acc. to ISO 2631-1 (except for kinetosis assessment and rolling motion) - Vibration in buildings acc. to ISO 2631-2 - Rail vehicles acc. to ISO2631-4 	
Measurement	<ul style="list-style-type: none"> - User guide, indication of the selected measurement mode, help for the sensor positioning - Indication of vibration total value as well as elapsed and remaining measurement duration - For all axes: Indication of interval rms value, crest factor, MTVV 	
Data Storage	<ul style="list-style-type: none"> - Saving up to 100000 measurements - Indication of measurement mode, selected parameters as well as a verbally expressed assessment (good, acceptable, bad) - Integrated calculation and indication of the admissible exposure duration - Indication of detailed data for the marked measurement - For each measurement, remarks can be noted - Save and reload measured values in CSV format - Printing a report about the measurement, individual report examples can be configured 	
Calculator for Daily Vibration Exposure A(8)	<ul style="list-style-type: none"> - Several A(8) calculations possible at the same time - Export of the calculation into text file possible or print as a configurable report - Arbitrarily many exposure segments possible per A(8) calculation - Arbitrary name and duration of the exposure segments - Evaluation acceleration of the exposure segment calculated and indicated automatically - Arbitrarily many measurements can be included for each exposure segment 	
Vibration Analysis	<ul style="list-style-type: none"> - Separate analysis for each measurement - Analysis already carried out while measuring - Analysis for each measurement is saved - Frequency resolution 1 Hz - Automatic amplitude recognition - Zooming and scaling 	-
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	Transfer of total vibration value as well as evaluation of single measurement	
Miscellaneous		
Available as a Kit	VMSet-13P VMSet-14P	VMSet-13 VMSet-14
General Functions	Instrument is cloneable	

* Centrally managed in InnoMaster

Changes without prior notice

February 2016

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