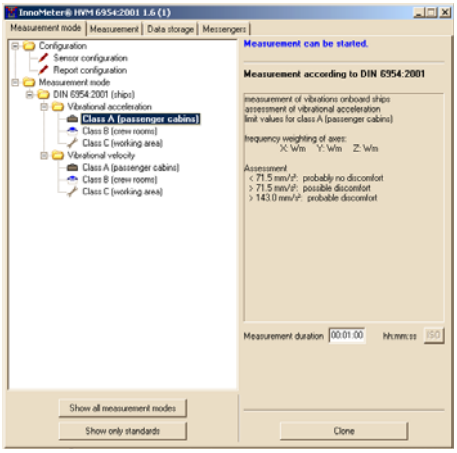
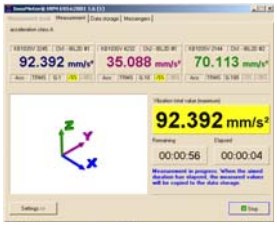
InnoMeter® HVM 6954

Vibration Measurements on Ships

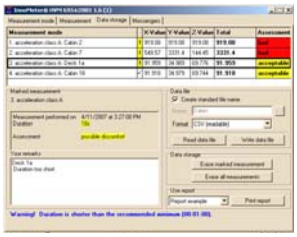
Measuring acc. to standards has never been so easy:



1. Select the measurement mode



2. Start the measurement



3. Automatic data storage and evaluation

Application

On board passenger and merchant vessels vibrations can occur, which may negatively interfere with the work of the crew or which may diminish the comfort of passengers and crew. In order to assess complaints or to prevent them, measurements acc. to DIN ISO 6954:2001 are suitable, since they allow the evaluation of the vibration severity with regard to habitability on board ships.

By using the InnoMeter HVM 6954:2001, one can easily perform these standards conforming measurements. Additionally, the instrument contains a storage for recent measurement results.

Properties

Compared to common portable instruments the InnoMeter HVM 2631 offers a convenient user menu. The user is guided from the selection of measurement mode to the analysis of measurement data in a logical way. Graphical figures for sensor positioning make multiple axes measurements easy and ensure the measurement is according to standard.

According to the standard, the InnoMeter 2631 is designed for simultaneous measurement in three axes. The usual measurands and weighting filters are integrated. The classification according to the standard (passenger cabins, crew quarters, working areas) with respective standard values is ready to be retrieved. With the choice of the measurement mode, measurement parameters and standard values are adjusted automatically acc. to the standard.

Remarks about the measurements can be noted, measurements can be saved and read into again.

Additionally, the Pro-Version contains frequency analysis of both the unweighted vibration signal and the weighted signal according to occupational health aspects. So the generating components are found quickly and the vibration source can be eliminated.

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Specification

Model	InnoMeter HVM 6954:2001 Pro	InnoMeter HVM 6954:2001
Signal processing		
Filter	W_m filter acc. to the standard	
Measurand	Vibration acceleration or vibration velocity	
Unit	mm/s^2, mm/s	
Parameters	Interval rms value	
Measurement duration	Adjustable 1 s … 1 day	
Graphical presentation		
Numeric display	5 digits: 0.001 … 99999	
Refresh	1 ... 4 times per second *	
Status indicator	Sensor, measuring channel, measurand, parameter, gain, underload, overload	
Recommended screen resolution	From 800 x 600 pixels on	
Data acquisition, storage, presentation		
Measurement modes	- Vibration measurement acc. to DIN 6954:2001 - Evaluation acc. To class A, B or C	
Measurement	- User guide - Choice of the measurement mode - Indication of elapsed and remaining measurement duration - Indication of the interval rms value for all axes - Indication of the vibration total value	
Data storage	- Saving up to 100000 measurements - Indication of measurement mode, time of measurement, selected parameters as well as a verbally expressed assessment (good / acceptable / bad) - For the marked measurement: indication of detailed data - For each measurement remarks can be noted - Saving and re-import of the data in CSV format - Printing of reports, use of own templates	
Vibration analysis	- Separate analysis for each measurement - Analysis at measuring time - Analysis is stored for each measurement - Frequency resolution 0.1 Hz - Automatic amplitude search - Zooming and scaling	---
Event messengers		
Large screen	Índication 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	
Miscellaneous		
Available in a kit	VMSet-16P	VMSet-16
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.

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