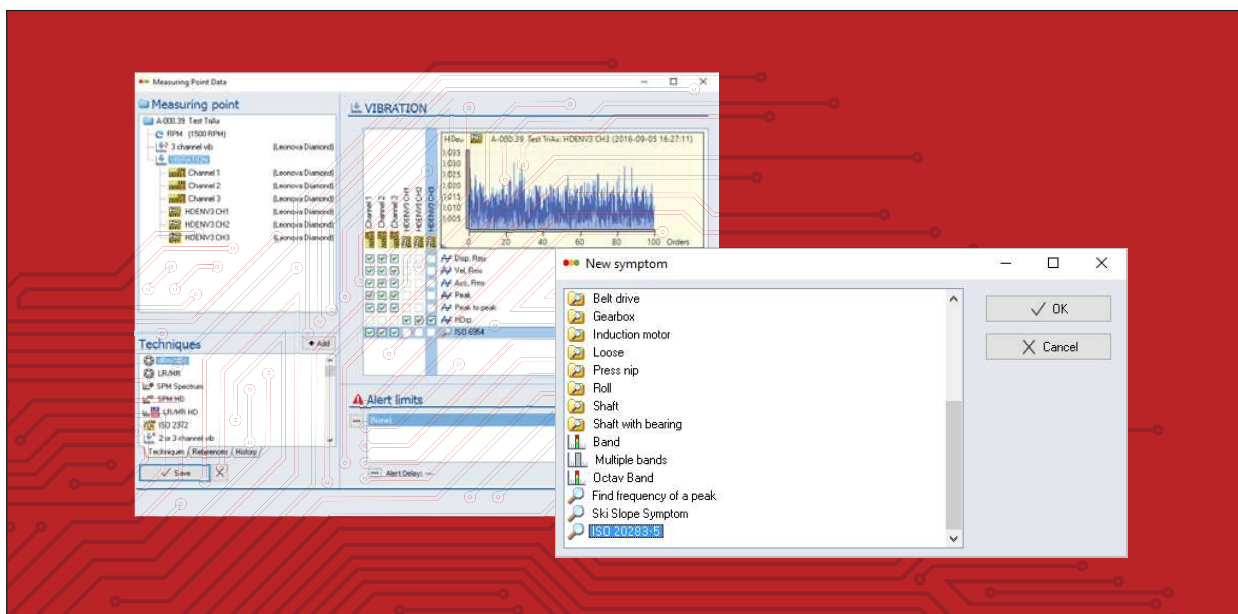


Condmaster® Ruby – Vibration ISO 20283-5



The International Standard ISO 20283-5 contains guidelines for the evaluation of vibration with regard to habitability on a passenger or merchant ship, as well as requirements for the instrumentation and the method of measurement in normally occupied spaces.

Shipboard vibration interfering with duties or reducing comfort is objectionable and often results in adverse comments from crew and passengers. This international ISO standard gives the guidelines for evaluating the habitability of different areas on a ship. The habitability is evaluated by the overall frequency-weighted RMS vibration values from 1 Hz to 80 Hz.

Vibration data acquired in accordance with this international standard are also useful for

- comparison with ship specifications
- comparison with other vessels
- further development and improvement of vibration standards.

It is recommended that the classification to be applied to the various areas of a ship be agreed between the interested parties (e.g. shipbuilder and shipowner) prior to any assessment of habitability.

Measuring rounds can be set up using three-channel vibration assignments with ISO 20283-5 as a symptom. Results from measurements and overall frequency-weighted RMS vibration values measured according to ISO 20283-5 can be presented in Condmaster Ruby, but the evaluation is to be handled in an external software program.

Features of ISO 20283-5 are:

- Vibration measurement in three directions (horizontal, vertical, axial).
- Frequency 0 Hz (DC) to 500 Hz.
- Frequency-weighted RMS value 1 to 80 Hz.
- Time signal.
- Spectrum, 6400 lines.

Part numbers

MOD198 Vibration ISO 20283-5

