



Ride Indexer

Evaluating the ride comfort with a software which determines relevant indicators according to all international guidelines.

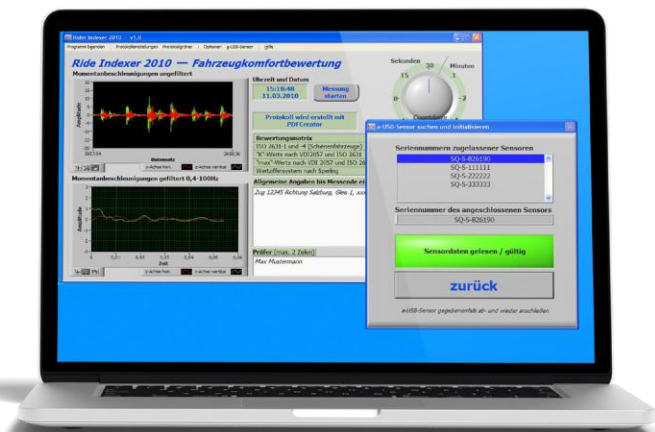
RIDE COMFORT

Railway vehicles are exposed to mechanical whole-body vibrations which influence the ride comfort for passengers and vehicle drivers. Crucial influencing factors are suspension, bogie, state of the wheels etc.

By means of technical test procedures which are described in national and international standards and guidelines, the vehicle's state of comfort can be evaluated. Hence, the standards ISO 2631-1, ISO 2631-4, VDI 2057 and the evaluation according to Sperling's system comprise procedures and calculations to evaluate the ride comfort of railway vehicles.

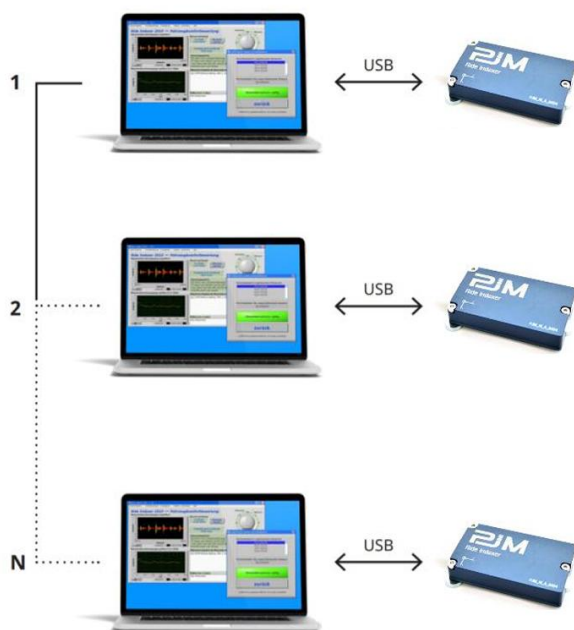
FEATURES

- Triaxial “plug and play” sensor (no further configurations are required!)
- Easy-to-operate software
- Result protocol
- Calculation according to ISO 2631-1, ISO 2631-4, VDI 2057 and Sperling's system



FUNCTIONALITY

The overall system consists of a notebook and a triaxial accelerometer which is connected to the USB port of the laptop. The accelerometer's signal is evaluated by a software. The result is provided by key figures. The result can be printed and saved as PDF-file.



KEY FIGURES of triaxial sensors

Features

- Final value +/- 4 g
- Band 0 – 2 kHz
- Resolution 0,0065 m/s²
- Ground noise 0,011 m/s²

Format

- Dimensions 55 x 95 x 15 mm
- Weight 250 g
- Cable length 3 m (extension to 30 m possible)
- Fitting magnetic

Connection

- Communication USB 2.0
- Power consumption in operation 13 mA

Environmental data

- Shock resistance 1000 g
- Temperature 0 – 70 °C

System requirements

Hardware

- 1,2 GHz CPU
- Intel i5 Gen12
- 16 GB RAM
- 512 GB SSD
- MS Office 2021
- 2 USB ports (for possible higher power supply)

Optional

Port of a USB hub with external power supply with 2 USB ports

Software

- Windows 11 Pro Original
- 35 MB memory capacity
- Display resolution 1024 x 768
- Adobe Acrobat Reader
- English Language

