

siPass-by

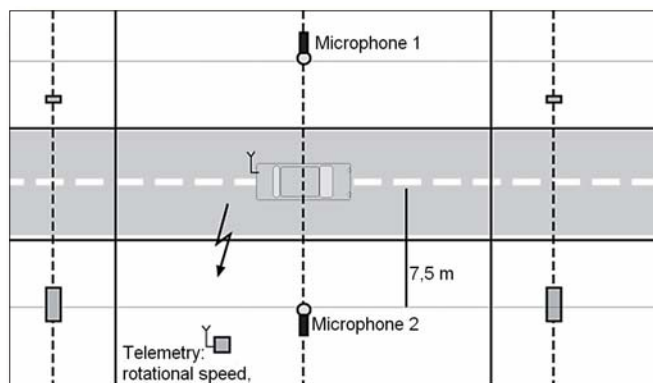
Pass-by measurement system according to ISO 362 and ECE R 51



siPass-by is a proven pass-by measurement system with numerous analysis options like high-resolution order analysis, tire rolling noise measurement and noise source separation.

The measurement method according to the common ISO 362 is supported as well as the measurement method according to ECE R 51.

- Flexible and easy handling
- Fast measurement / analysis
- freely adaptable configuration
- Digital telemetry up to audio bandwidth
- Convenient data management in a network
- Numerous analysis options

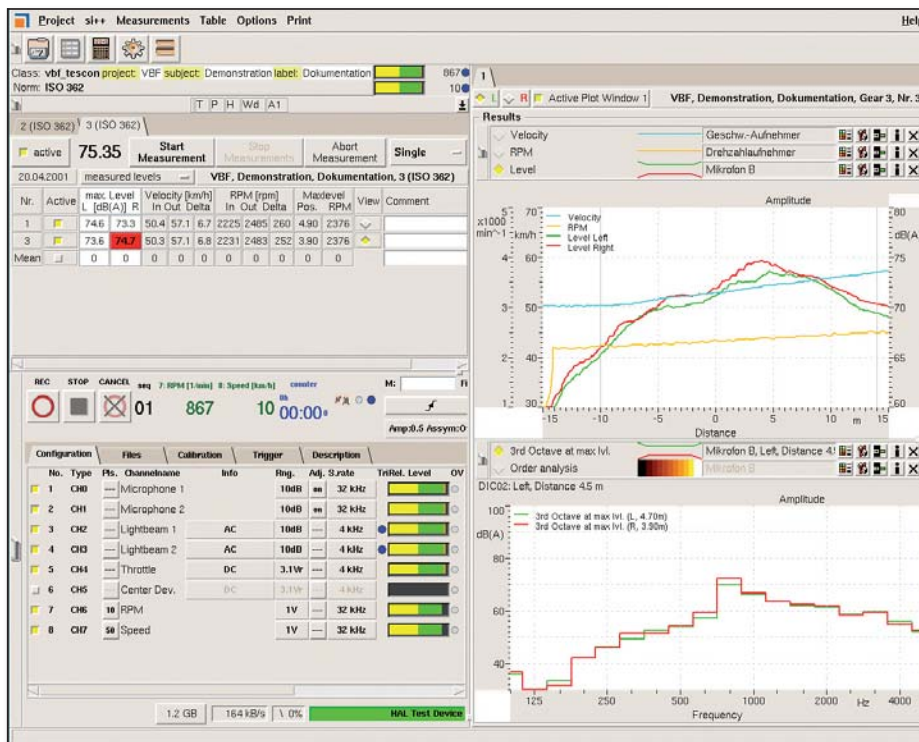


Applications

- Exterior noise testing
- Development: tires, motors, exhaust systems
- Conformity testing / COP control of serial production

Relevant Standards

- ISO 362
- ECE R 51



■ Support for new measuring method ECE R 51

The main differences between ECE R 51 and the older ISO 362 are the acceleration method and the calculation of the end result.

Acceleration in ISO 362 is defined as approach with 50 km/h and then full throttle after passing the -10m line. In contrast ECE R 51 requires 50 km/h at microphone position. This usually requires pre-tests where the drivers accelerates at various positions and determines the speed at microphone position. This has to be repeated for each vehicle with different power.

siPass-by supports the driver in displaying the point where 50 km/h was reached. So the driver knows how much acceleration has to be displaced in order to reach 50 km/h at microphone position.

ECE R 51 also calculates the end result by taking the actual acceleration and the so-called power-to-mass-ration of the vehicle into account. Both determine which gears have to be tested. siPass-by also supports the driver by calculating the required gears and listing the detailed decision parameters.

Presented by:

Driver Support

- Optional for ECE R 51
- Intuitive display for the driver
- 50 km/h feedback
- Recommendation to choose gear

Hardware / Software

Complete system with:

- Telemetry
- Radar
- Photoelectric barrier
- Microphones
- Software
- Measurement PC
- Optional: weather station
- Optional: minicomputer for the driver support, WLAN