# PEGASEM IFS Intelligent 5<sup>th</sup>-Wheel Sensor



The PEGASEM Intelligent 5<sup>th</sup>-Wheel Sensor incorporates data acquisition capabilities besides its basic function as a wheel pulse transducer. Using its serial interface data can be exchanged with a measurement program running on a PC. The sensor is mounted on the right dropout of the fork and connects to a PC through an Interface/ Power-Supply-Box. Our PEGATEST Software calculates distance, speed and acceleration/deceleration values, using sensor's data with high precision and accuracy. The 5<sup>th</sup>-Wheel, the Sensor, the PEGATEST Software and a portable computer form a complete system for ECE-R13 and ECE-R90 tests at an extremely competitive price.

## Features

- Distance Pulse Output
- Analog Speed Output
- Data Acquisition Capabilities
- Serial Interface
- Sensor head fully sealed and shock-proof
- Wide temperature range
- PC-interface box included
- Includes PC-Software for vehicle performance tests
- Brake Pedal Switch included
- P100 Speed Display optional

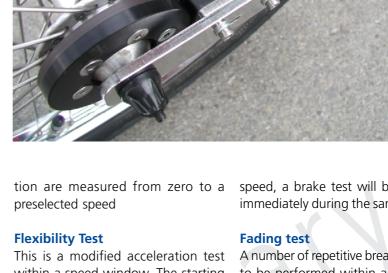
#### Applications

- Speed Measurement
- Acceleration Tests
- Brake Tests
- Stopping Distance Tests
- Tire Tests
- Vehicle Development

# **Operating Modes Acceleration Test**

Time, distance and average accelera-

Administration



within a speed window. The starting speed is a non-zero value.

#### **Deceleration Test**

Brake test with documentation of initial speed, stopping distance, stopping time and Mean Fully Developed Deceleration, MFDD. Measurement is triggered by a brake pedal switch, included with the system. Measured values also include time, distance and average deceleration within a selectable speed window.

### **Combined Acceleration and Deceleration Test**

After performing an acceleration test from zero and reaching a predefined

speed, a brake test will be executed immediately during the same test run.

A number of repetitive break tests have to be performed within a given time frame. The PEGATEST Software can be programmed to different test sequences. This enables the unit to be easily adapted for future test frames.

#### Wheel Size Calibration

By driving along a test track of known lenght the wheel size is calculated automatically and stored for future measurements.

#### **Options:**

The PC-based operating software for the sensor is open-architecture and can be easily adapted to individual needs. Please contact factory for special requirements.



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