

PEGASEM IFS

Intelligent 5th-Wheel Sensor



The PEGASEM Intelligent 5th-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 5th-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-

tion are measured from zero to a preselected speed

Flexibility Test

This is a modified acceleration test 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.

Fading test

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 length 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.