

At your service

worldwide on road and rail



Wheels
Optical sensor
Radar sensor
GPS-systems
Route
Speed
Acceleration
Deceleration
Consumption
Runtime



Peiseler test systems are used for applications in automotive development, for measurement of car performance, measurement of road distances, crash testing, expert reports and car inspection.

Common features of all systems: ease of handling and control, quick installation on and within a vehicle, low weight, small size. All equipments are microprocessor controlled and can be calibrated thus warranting minimum failure incidence and maximum precision.

Depending on existing requirements, the test systems are operated in conjunction with motion transducers mounted on fifth wheels or on car wheels, flow meters, rotational speed transducers, optical sensors, radar sensors and satellite supported systems.

The DBV, DB-PRINT and VTS-PLUS systems are supplied in a strong aluminum portable case.

VS	Simple test system for measuring speed and distance travelled. Digital display of instantaneous and mean speed, of selected distance stretches and total distance. The RS 232 interface permits computer-controlled operation of the system and transfer of test data. The system features an analog output for speed in km/h.
VSS	High resolution system for measuring speed and distance travelled while distinguishing between forward and reverse movement. Distances in forward or backward direction (also negative figures) can be set at any moment. The scope of supply comprises software for tabulation of serial data of distance measured, including distance sections, time, and field for notes. Saved CSV (EXCEL) files can easily be inserted into other documents.
DBV	Suitable for common deceleration and acceleration testing. In braking mode the following data will be digitally displayed: frozen speed at braking start, braking distance, mean deceleration, braking time between two settable speeds V1 and V2. Display in acceleration mode: instantaneous speed, distance travelled, mean acceleration [calculated by $(V1-V2)/t$], time between V1 and V2. Speeds V1 and V2 are settable. Included: Analog output for speed.
DB-Print	The DB-PRINT system is designed for regular acceleration and brake testing on cars. In addition, it will provide audio signals enabling a driver to perform one-man repetitive brake tests. Test results are both displayed and printed. Word printing selectable from four languages. The unit's compactness ensures minimum installation time. Distance travelled data is obtained by using either a Peiseler fifth wheel or a non-contact optical sensor. Measurements meet guideline ECE-R-13. The equipment features a RS 232 interface.
VTS-PLUS	Test system collecting and providing data on speed, distance, time, fuel consumption, acceleration, deceleration and optional data on rpm, pressure, force, temperature, slip, etc. A separate display unit shows test results. During or after measurement test data is printed on an integrated paper printer and stored on a portable data carrier. An interface permits the test system to be connected to a PC thus facilitating data evaluation on a computer.

VAZ-2E

Digital display of fuel consumption while using the optional flow meter type PLU 116H. Test time in seconds, instantaneous and mean fuel consumption in litre/hr and total consumption in litre are displayed. Integrated functions: analog-output for instantaneous fuel consumption, RS 232 interface, if requested, installation in 19" mounting frame.

VZW-2E

System for measuring fuel consumption data related both to time and distance travelled: Digital display of consumption data as a function of time in litre/hr - and as a function of distance travelled in litre/100 km, as well as display of instantaneous and mean speed in km/hr, and of distance travelled in m. Distance travelled is determined by (optionally available) Peiseler distance transducers to be mounted on a wheel hub. Integrated analog outputs for both fuel consumption and speed.

PLU 116H

This precision fuel consumption flow meter is particularly suitable for making measurements while making test runs. It can also be used for measurements during motor testing and on roller test stands – for research, development and production.

Peiseler systems for providing data on distance travelled

Peiseler fifth wheels can be used in all weathers and permit This fifth wheel, named Peiseler wheel among professionals, is used in all applications where no slip is allowed. Peiseler fifth wheels enable backing up without having to lift the wheel.

28"/16"/16"Z fifth wheel assembly

These versatile fifth wheels provide exact data on distance travelled for various measurements. An angular gearbox of special design ensures that one complete revolution of the transducer axle corresponds to exactly one meter of distance travelled. The motion transducer will fit the standard DIN-KR screw-connection. Various devices are available for fastening the fifth wheel assembly to a vehicle: By means of suction cups, to trailer hitches by a special clamp, to bumpers by chains and clamps, through the holes of a license plate or by using a "Bosch" type device.

HS type 28" fifth wheel assembly

This fifth wheel is particularly suitable for testing at high speeds and for tests requiring the use of high-resolution motion transducers. Novel design and special components ensure that the wheel is running smoothly up to high speeds. The motion transducer (generating 1000 or 2000 pulses/revolution) is fitted directly onto the wheel's hub. A parallelogram of rods keeps the transducer in a stabilized position making sure that no additional pulses are generated by pitching movements of the car or by wheel jumps. For mounting the HS fifth wheel to a vehicle, two standard fastening mechanisms are available: clamping device for a trailer hitch and a device using four suction cups.

20" skid wheel assembly

A special fifth wheel for brake testing with blocking wheels on a skidding vehicle. A complex construction makes sure that the wheel proper can turn freely by 360° around a vertical axis. There is no risk of damaging the wheel in case of skidding or reverse movement. The motion transducer is fitted onto the wheel's hub and provides 2000 pulses per revolution. Fastening to the car per customer requirements.

Two-wheel trailer	Trailer running on rails - for distance and speed measurements on streetcars and subway cars.
Measuring wheel to be run on rail	Measuring wheel-for brake, speed and acceleration measurements on streetcars and subway cars.
Peiseler-Plate	The Peiseler Plate was designed for running tests without using a fifth wheel. The Peiseler Plate can be easily fitted onto a non-driven car wheel and serves as a mounting plate for the motion transducer. It is fixed to the car's wheel by means of chucks clamping hexagonal lug nuts. Within given limits, it is adjustable to various bolt pitch circles. Plates for wheels with 3, 4 and 5 lugholes are available. Standard chucks are for 17, 19, 21 mm hex nuts. Chucks for other sizes can be built.
Motion transducer	Peiseler motion transducers supply „distance travelled pulses“ to be processed by test systems. They use optoelectronic pulse-generation and provide 10 - 4000 pulses per revolution. The „SR“ type transducers are to be screwed onto a fifth wheel assembly. The „KFZ“ type transducers are fixed to car wheels, by means of „Peiseler Plate“ fastening devices while using cable guiding and positioning devices. The latter type of transducers are also used for slip measurements and crash tests as well as in conjunction with many test systems that are built in-house by users.
SR KFZ	
Contact free sensors Optical Sensor Radar-Sensor GPS-Sensor	Compact sensors with integrated electronics for contact free measurement of distance travelled and speed without slip – on roads, off-road and on rails. Their small dimensions and low weight enable them to be easily mounted onto the vehicle to be tested. Various mounting systems are available.
Signal processing	Signal shapers and helpful aids facilitating installation, hooking up and reducing the number of cables to be used. Thus all Peiseler motion transducers can be readily connected and provided with suitable power cables.
AMS	System for determining acceleration and speed of (vehicle) doors, shutters or gates during closure. Also usable for production and quality control by evaluating data and providing fault signals.
Shock tester EP	This Peiseler shock tester is designed for monitoring the quality of transportation on rail vehicles and on trucks. Special software for data evaluation is available.
Multi-purpose test generator	This test generator can be connected to inputs of a variety of Peiseler test systems for measuring <i>distance, slip, and fuel consumption</i> .
System for tracing motion of mail or packages in transit	The transit motion tracer system has been designed for registering motion/vibrations and temperature of letter post or packages while in transit.

Technical changes reserved