

# PEGASEM

## Product Line



## 5W-20

### Fifth Wheel for Vehicle Testing

The newly designed 5th-wheels of PEGASEM stand out because of their precision, compactness and carefree reversing ability. This unique design avoids lateral forces to the rim when the vehicle is skidding or reversing. This enables the vehicle to be turned without lifting the 5th-wheel. The integrated sensor delivers stable measurement data even on critical surfaces e.g. on flooded test tracks where non-contact speed sensors often fail.



## GSS Series

### Ground Speed Sensors

PEGASEM Radar Sensors GSS10 and GSS20 allow carefree non-contact speed sensing over ground at a very competitive price. For high precision measurements, the GSS20 has automatic internal vehicle pitch compensation using a dual beam design while the GSS10, with its single beam approach, is targeted for applications where vehicle pitching during acceleration and braking does not occur. Both models come in weatherproof housings with five meters of cable and a mounting solution for easy and quick fitting to the vehicle's body.



## WSS Series

### Wheel Speed Sensors

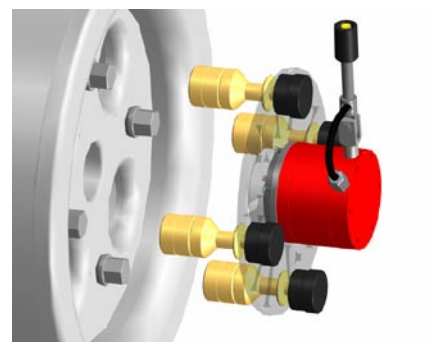
PEGASEM Wheel Speed Sensors deliver high precision information on the rotational speed of the car wheels. Often, they are used as precision vehicle speed and distance transducers. For testing of tyres and Anti-Blocking-Systems (ABS), they give exact information on the status of the wheels for slip and skid calculations. Our Wheel Speed Sensors have been designed for the harsh environments typical of tests on a car wheel hub. They resist shock, vibration, dust, mud, salt-water, snow and ice without problems. They fit seamlessly into the PEGASEM Modular Mounting System and can quickly be attached to a wide range of different wheels and hubs.



## MMS

### Modular Mounting System

PEGASEM delivers a new Modular Mounting System for the attachment of test equipment and sensors to car wheel bolts and nuts. This system offers extreme flexibility and adaptability for fitting a variety of equipment to different vehicles. It offers some unique and useful features nowhere else available on the market like the new magnetic holders for the lug nuts, the high modularity and the customised transportation case for all parts.



## WST Non-Contact Rotary Transducer

A rotary transformer transfers energy and setup data to the rotating section of the unit while measurement data is sent back to the stationary section through a high speed infrared transmission line. Because of the PEGASEM WST's ability to substitute mechanical sliprings in many applications, it is also called a *Non-Contact Slipring Transducer*. Because the WST does not use mechanical contacts, better transfer quality and extra long life are achieved compared with classic sliprings, even under harsh environmental conditions. Yet, the overall price of the WST is very competitive.



## P100 Series Speed Monitor

The P100 series of driver displays acts as a control monitor for the vehicle speed and as a node for the sensor wiring during vehicle tests. The P110 and P120 units also enable simple vehicle tests like stopping distance, turning circle or round trip time. The display works with different wheel diameters and pulse counts. All pulse transducers from 10 pulses per meter or higher are suitable. With its analogue input channel the P120 also enables speed, force or pressure display from various types of non-pulse transducers. Sensors with moderate power requirements can be directly supplied by the display.



## P300 Series Test Unit for Vehicle Performance

The PEGASEM P300 Series has been developed for brake and acceleration performance tests of vehicles using a 5<sup>th</sup> Wheel or other sensors creating distance pulses. It incorporates data acquisition capabilities, sensor preamplifiers and a sensor power supply besides its basic function as control unit. Using its USB interface data can be transferred to a mobile PC and continuously stored on the hard disk. The included Windows software calculates all necessary information to carry out brake tests according to various international regulations. Results are presented in tabular and graphic form. Data can be further examined using standard software packages (e.g. EXCEL). The PEGASEM P340 and a PEGASEM 5<sup>th</sup> Wheel form a flexible system for tests per ECE-R13, ECE-R90 and MVSS135 at a very competitive price.



## P2000 Vehicle Performance Tester

The PEGASEM P2000 is a newly designed Data Acquisition unit for acceleration and deceleration tests. It covers many tests that are mandatory for development, improvement and registration of vehicles, brakes, tyres and accessory parts. With our fifth wheel and temperature and pressure sensors the P2000 is also an excellent choice when tests according to ECE-R13, ECE-R90 or 71/320/EWG will be carried out. A 32-bit processor gives the unit enough performance for online graphic plots by the built-in thermal printer.



### Headquarter

An der Lach 11  
D-86720 Noerdlingen / Germany  
Fon +49 (0)9081 604710  
Fax +49 (0)9081 604711  
info@pegasem.com  
www.pegasem.com



PHONE: 313.729.9898  
BRENT@BRENDASSOCIATES.COM

### MOTION MEASUREMENT SYSTEMS

BRENT RIJNOVEAN

[WWW.BRENDEASSOCIATES.COM](http://WWW.BRENDEASSOCIATES.COM)

24407 ROCKFORD STREET  
DEARBORN, MI 48124