

PEGASEM

Product Line



SAT100 Series

Satellite Based Speed Sensors

The SAT100 derives velocity signals from the GPS satellite system. It combines superior measuring precision with unsurpassed ease of mounting. Additionally the SAT100 offers an auxiliary input to connect a wheel sensor (PEGASEM WSS) or a radar speed sensor (PEGASEM GSS) for dead reckoning in situations with a limited or missing sky view. The digital frequency and the analogue speed output offer an easy connection to most data acquisition units. The speed and distance information is also available on the sensor's RS232 interface for linking it serially to a computer.



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.



5W-20

Fifth Wheel for Vehicle Testing

The classic 5th-wheels of PEGASEM stand out because of their precision, compactness and care free 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 optical or radar based speed sensors may fail. PEGASEM 5t wheel assemblies are available in different sizes for a wide range of applications from industrial vehicles over cars to escalators.



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.



SRS Series

Slip ring System for Car Wheels

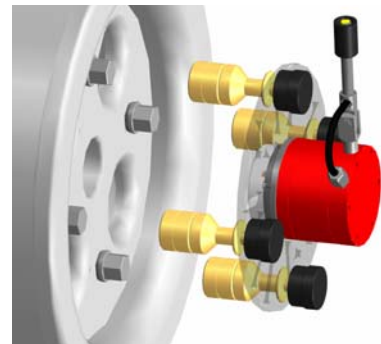
For measurements at rotating parts located at the car axle the PEGASEM Modular Mounting System (MMS) is available with a 8 channel slip ring assembly in a waterresistant package. The unit is easily and firmly attached to the lug nuts with magnetic holders or clamps. This allows fast fitting of harnesses for data acquisition sensors to the car wheel or axle. For special applications the SRS can be delivered with a preamplifier and cold-junction compensation for thermo-couples and with a wheel speed sensor generating up to 1024 pulses per revolution.



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.



PFS Series

Pedal Force Sensors

The PEGASEM PFS pedal force sensors have been developed for homologation tests of vehicle brakes. A Velcro® "spider" attaches the sensor to any pedal size, making it suitable for passenger cars and commercial vehicles. The sensor comes with a built in amplifier and has a digital output for triggering external measurement equipment. The optional display can be easily fitted to the windshield. It can be supplied together with the sensor directly from the DAQ-system or from a separate power input. PEGASEM PFS Sensors stand out from other brands because they are robust, compact and very cost-effective.



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.

