HITEC Sensor Developments, Inc.
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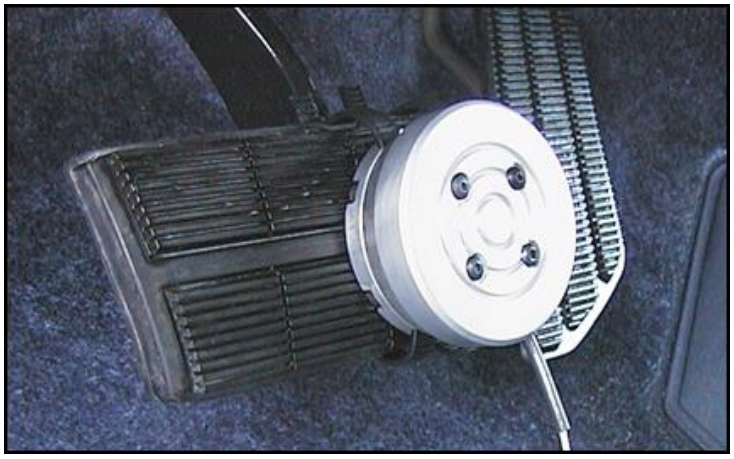
Product News !!

Hitec Sensor Developments offers a wide range of Vehicle Test Sensors to measure a wide variety of wheel, window, steering and break forces, sliding door and drift angle measurements for automotive test applications.

The 10118 Pedal Force sensor is used to evaluate the force requirements of new and existing brake systems. The transducer adapts to pedals in automobiles, trucks, buses, or material handling equipment. It mounts directly to the pedal with spring-loaded, quick-change clamping arms or cable ties for easy installation. The sensor is available in capacities ranging from 25 to 400 lbs. The required capacity needs to be specified at time of order.



HITEC Sensor Developments is a Safety Technology Holdings Company, and is made up of a growing portfolio of products, sensor design expertise and service capabilities. Established in 2017 through the merger of HITEC Sensor Solutions (Littleton, MA) and Sensor Developments (Lake Orion, MI), HITEC Sensor Developments, Inc. has over 85 years of combined experience in providing custom load cells, force sensors, torque and pressure transducers, and strain gages.

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Model 10293, Window/Sunroof Pinch Force Sensor Kit, is used to measure the pinch force of automatically closing windows, doors, and sunroof systems under defined spring rates and displacements. The sensor features five interchangeable spring packs, adjustable measurement height, and a hand held peak force display. The user will configure the sensor spring rate by screwing in the spring packs and adjusting the window bracket to the desired window opening. In operation, the sensor is clipped onto the window and the closer actuated. The companion instrument records the peak force developed to verify compliance to the specifications. The sensor was designed to help automakers and OEM's comply with FMVSS 118 and International standards for interior fittings.

The Model 90250 is a handheld system and includes four sensors, the PMAC 2000 portable readout instrument, and hard shell carrying case. The hand held units measure and record the closing force of a power window or sunroof. The sensors have a tuned stiffness and were designed to help automakers and OEM's comply with FMVSS 118 (Federal Motor Vehicle Safety Standard section 571, title 49).

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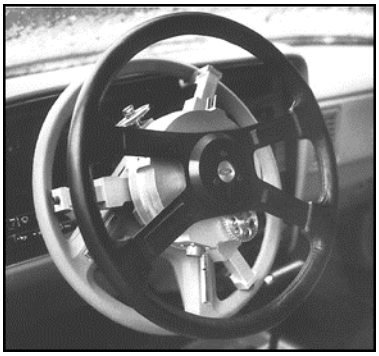
Digital IR telemetry offers continuous, non-contact torque data from the very low mass, rotating steering sensor to a stationary receiver. This system provides a portable, state of- the-art steering effort sensor. It can be used in the field, laboratory, or on the test track to measure steering torque and angle requirements. The Model 01844 is Airbag compatible, has CAN output, CAN 2.0B standard, and DAQ system with interface software (ref model 90362)

The Model 01027 steering effort transducer was designed to evaluate steering torque requirements of non-airbag equipped, new and existing steering systems and components used in automobile, trucks, buses, and material handling equipment. Quantitative evaluations of steering systems, steering geometries, tire interactions, and safety factors are made using this device. The steering effort sensor is equipped with a 14” steering wheel. This is fastened to the existing steering wheel by means of a fixed or optional adjustable 3 point clamp assembly. For direct steering shaft attachment, a custom adapter plate is available.

The Model 01227 is used to evaluate steering torque and angle in new and existing steering systems and components in automobiles, trucks, and buses. This low profile steering effort sensor is installed in-line with the steering column and is virtually unnoticed by the driver.



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The incorporation of power doors on new automobiles has necessitated control systems to prevent personal injury and trapping. In order to design, tune and validate these systems, accurate force measurements need to be made at critical locations of the doors travel. Designing innovative and easy to use fixturing for SDI's popular model 10293 hands free pinch sensor has allowed engineers and technicians to make these measurements accurately and repeatedly.

The model 90411 fixture allows the pinch sensor to be mounted to a sliding door panel and measure the peak closing forces generated, prior to motor reversal, at various opening widths. By allowing the sensor to be positioned parallel to direction of travel, and not just parallel to the door, the true force generated is measured, not just a component of that force.

The Model 90418 is a Sunroof or Vent opening and closing force measurement and uses 10293 hands free sensor.

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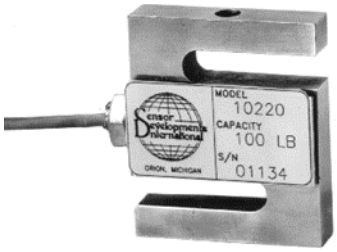
HITEC Sensor Developments also designs and manufactures custom sensors and strain gage solutions, as well as provides both in-house and on-site strain gaging. HITEC's in-house calibration laboratory is accredited to the ISO 17025 standard. Each strain gaged based transducer produced or repaired by can be fully certified to these exacting calibration standards if our customers require it.



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