Eight Common Automotive Applications for Real-Time Pressure Mapping

Automotive Industry Uses Tactilus® for More Effective Quality Control and Failure Analysis

Madison, NJ (USA) – November 8, 2007– Tactilus® real-time dynamic electronic pressure mapping systems, offered by Sensor Products Inc., are commonly used throughout the automotive industry to quickly and accurately map pressure distribution between any two contacting surfaces. Tactilus® is increasingly viewed as an effective and cost efficient way to quickly assist engineers in R&D, failure analysis and quality control efforts. In fact, OEM’s and aftermarket manufacturers and distributors employ the systems for a variety of automotive applications. The most common applications and corresponding examples revealing how real-time pressure mapping aids the automotive industry are listed below.

1) Brakes – Verifies consistent compressive force across brake shoe; assesses squeal and fugitive noise. Useful for quality control in caliper design and development.

2) Clamping – Authenticates circumferential uniformity on cylindrical clamps and determines appropriate tensioning.

3) Door seals – Confirms uniform sealing of moldings and weather stripping for fuel efficiency and road noise reduction.

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4) **Impact** – Determines the location and force of impact during airbag deployment and controlled crash tests.

5) **Seat** – Assesses critical points of pressure to aid in more comfortable seat design.

6) **Lamination** – Offers assistance in maintaining desired plate pressure for the reduction of scrap rates.

7) **Tire tread footprints** – Evaluates congruity of footprint and rib patterns. Helpful in research of tread wear patterns and development of rubber compounds and tread designs.

8) **Wiper** - Evaluates for even surface pressure to maximize wiper effectiveness.

Vadim Shalyt, Sensor Products’ senior applications specialist says, “Tactilus® technology particularly lends itself to diverse automotive applications. Not only do the systems evaluate such a range of pressures with ease, but save time by providing information immediately with in-depth statistical data. These systems are ideal for assembly line assessment for OEM’s and aftermarket product manufacturers.”

Tactilus® is an electronic sensor system that evaluates tactile contact pressures in real-time. The Tactilus® system comes equipped with all components necessary to collect data for comprehensive analysis, including a matrix-based sensor mat, controller, and user-friendly software. Not only is Tactilus® conformable to highly curvaceous surfaces and intolerant environments, but is portable and runs on a standard laptop computer.

The upgraded feature-rich software for Tactilus® offers 2-D and 3-D imaging, region-of-interest viewing, longitudinal and latitudinal analysis, graphical displays of data in bar, pressure vs. time, line scan, histogram and isobar charts, statistical analysis of average/minimum/maximum pressures, total force over any selected area and more. The data may also be exported to virtually any third party software.

Free demonstrations of Tactilus® can be scheduled by contacting Sensor Products Inc. at 1.973.884.1755 (USA) or by visiting www.sensorprod.com/tactilus.

**About Sensor Products Inc. (USA)**
Headquartered in New Jersey and established in 1990, Sensor Products Inc. is a world leader in the manufacture and distribution of tactile pressure indicating solutions. Their customized and off-the-shelf products are installed within all of the Fortune 500 industrial companies as well as thousands of smaller manufacturing firms. Their sensors are used in applications as diverse as tire testing to semiconductor manufacturing and from R&D labs to space missions. Additionally, Sensor Products provides in-house and on-site stress and pressure mapping analysis, as well as a variety of technical seminars throughout the United States.

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