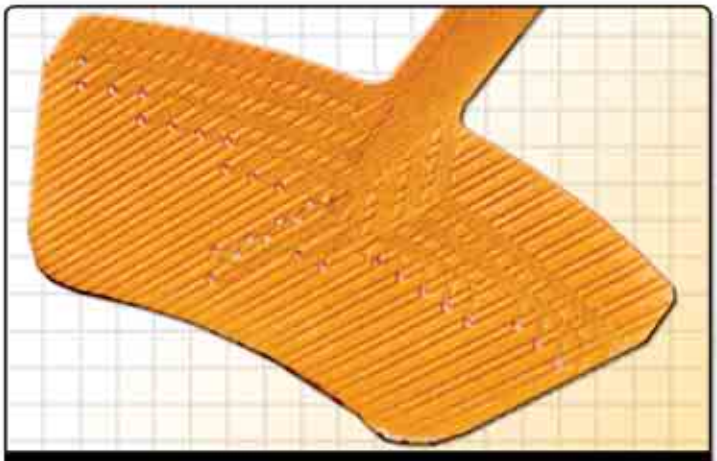
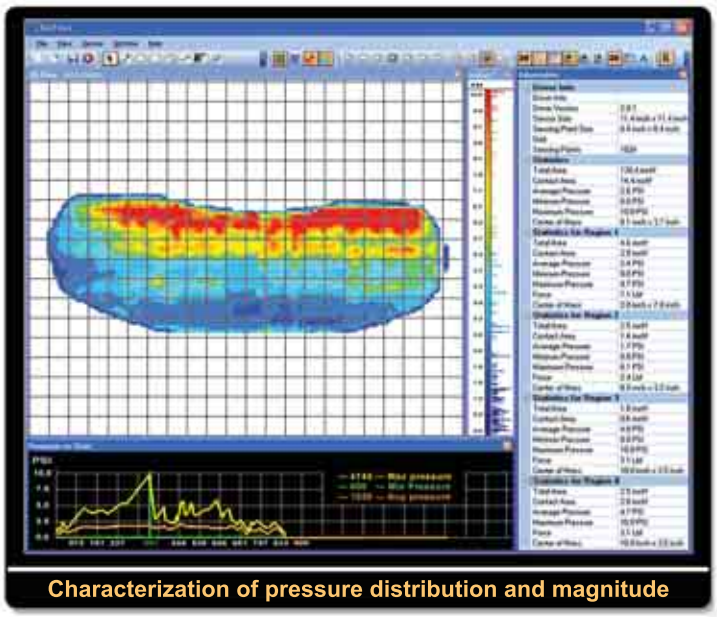
Tactilus®

REAL-TIME TACTILE PRESSURE ANALYSIS

Application: Brake Pad & Calipers



Tactilus® brake shoe surface sensor



Characterization of pressure distribution and magnitude

Key Propositions:

- Each sensor is individually customized to your brake shoe dimensions
- Highly accurate and repeatable by virtue of our proprietary embedded thermistor for temperature compensation

"Our primary proposition is to offer the client precisely what they require or need. To that end, everything we design with respect to the physical sensor element as well as our GUI and DLL's can be completely tailored to your unique situation."

~ Jeffrey G. Stark, CEO

Do you need to map pressure distribution across your braking surface?

The new Tactilus® brake sensor captures surface pressure distribution and magnitude between the brake shoe and rotor surface. Unique to the industry, each Tactilus® sensor is custom designed for your particular brake shoe. With Tactilus® you only have to invest once in electronics and as your brake design evolves, only the custom tailored sensor element need be adapted.

The Tactilus® sensor has built in thermistors that provide temperature compensation - an industry exclusive. As a result, you will have confidence that your data output is more accurate and repeatable than ever before.

Tactilus® Technology: Tactilus® is a matrix-based tactile surface sensor. Essentially an "electronic skin" that records and interprets pressure distribution and magnitude between any two contacting or mating surfaces and assimilates that data collected into a powerful Windows®-based tool kit. Each Tactilus® sensor is carefully assembled to exacting tolerances and individually calibrated and serialized. The architectural philosophy of Tactilus® is modular allowing for portability, easy expansion, and simultaneous data collection of up for 4 discrete sensor pads. Tactilus® employs sophisticated mathematical algorithms that intelligently separate signal from noise, and advanced electronic shielding techniques to maximize environmental immunity to electromagnetic noise, temperature and humidity.

SENSOR SPECIFICATIONS	
Technology	Resistive
Pressure Range	1 - 500 PSI (0.07 - 35.15 kg/cm^2)
Sensing Points	1,500
Max Simultaneous channels	Up to 4
Total Sensing Area	Customizable to application
Scan Speed	Up to 100 hertz
Spatial Resolution	Customizable from 0.03 in (0.8 mm)
Thickness	15 mils (0.38 mm)
Accuracy	± 10%
Repeatability	± 2%
Hysteresis	± 5%
Non-linearity	± 1.5%

System includes: sensor element, electronic controller, software and cables.

TACTILE PRESSURE EXPERTS
SPI
SENSOR PRODUCTS INC.
300 Madison Avenue
Madison, NJ 07940 USA
Phone:1.973.884.1755
Fax:1.973.884.1699
info@sensorprod.com

www.sensorprod.com