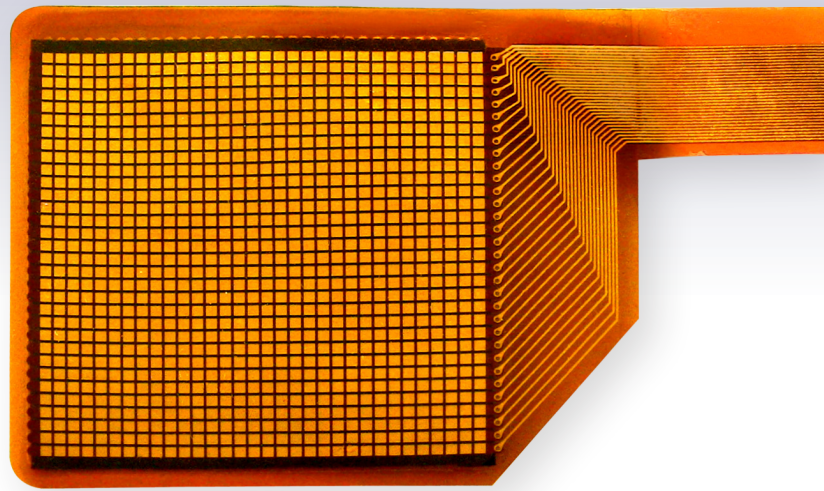


NOW
CHARACTERIZE
SURFACE PRESSURE
AS LOW AS 0-3 PSI!



COMMON APPLICATIONS



Packaging

nip impression, heat sealing



Automotive

brake pad, clamping, clutch, fuel cell, gasket/bolted joint, impact study, lamination



Electronics

heat sink, BGA, connector, lamination, LCD bonding, wafer bonding/polishing



Aerospace

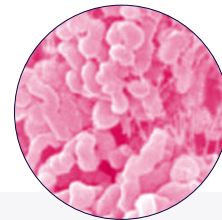
composite layup, fuel cell, lamination



Ergonomics

biomechanics, body mapping

TACTILE SURFACE PRESSURE ANALYSIS



THE INNOVATION: The exciting advancements in Nano-materials have



allowed us to introduce the world's first nano-polymer based tactile surface sensor. With greater temperature resistance, more accuracy, less drift and better repeatability the user now can perform surface mapping analyses with greater confidence than ever before!

WHAT IT DOES: Tactilus[®] allow the user to capture and record pressure conditions occurring in between any two contacting or impacting surfaces in real time. The paper-thin Tactilus[®] sensor is actually placed at the contact interface where it records and assimilates both pressure distribution and pressure magnitude on your Windows[®] based computer.



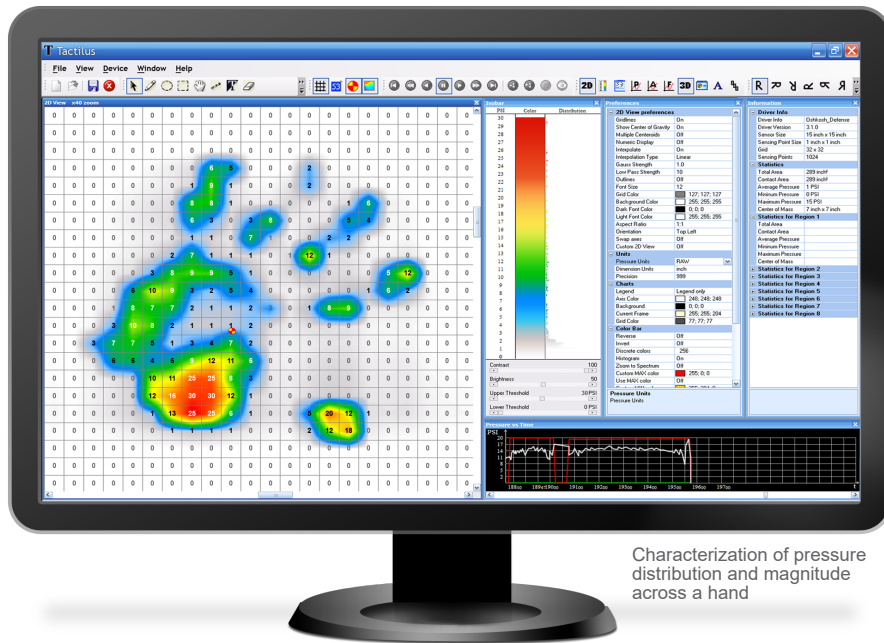
Hub and sensor element

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 the collected data 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 scalability, and simultaneous data collection from up to four discrete sensor pads Tactilus® employs sophisticated mathematical algorithms that intelligently separate signal from noise, and advanced electronic shielding techniques maximize the sensor’s immunity to noise, temperature and humidity.

IF YOU NEED TO MEASURE CONTACT PRESSURE BETWEEN OBJECTS THIS IS YOUR SOLUTION . . .



Characterization of pressure distribution and magnitude across a hand

SPECIFICATIONS

| | |
|--|---|
| Technology Nano-tube Composite | Spatial Resolution From 0.06 in. (1.6 mm) |
| Surface Pressure Range *0 - 300 PSI (0 - 21 kg/cm ²) | Thickness 16 mils (0.4 mm) |
| Matrix Size Up to 63 x 55 lines | Accuracy ± 10% |
| Sensing Points Up to 3, 465 total | Repeatability ± 2% |
| Sensing Area Size Up to 15 x 36 in. (38 x 91 cm) | Hysteresis ± 5% |
| Scan Speed Up to 800 FPS | Non-linearity ± 1.5% |
| Temperature Capability Up to 176°F (80°C) | |

*Sensors larger than 8 in. x 8 in. (20 cm. x 20 cm.) have max pressure capabilities that are lower.
System includes: sensor element, signal conditioning electronics & software.

PRODUCT BENEFITS

- ➔ Low initial investment
- ➔ Rapid learning curve ascend (no training required)
- ➔ Reusable