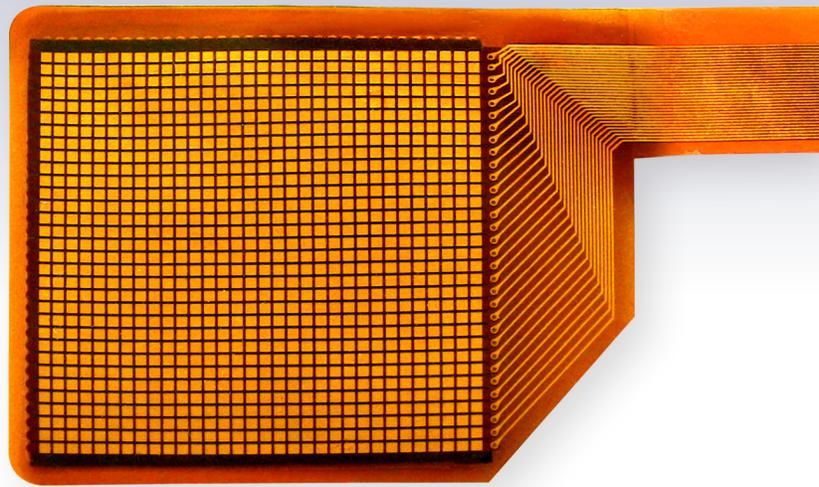


NOW
CHARACTERIZE
SURFACE PRESSURE
AS LOW AS 0-3 PSI!



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



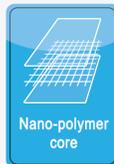
Ergonomics

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.



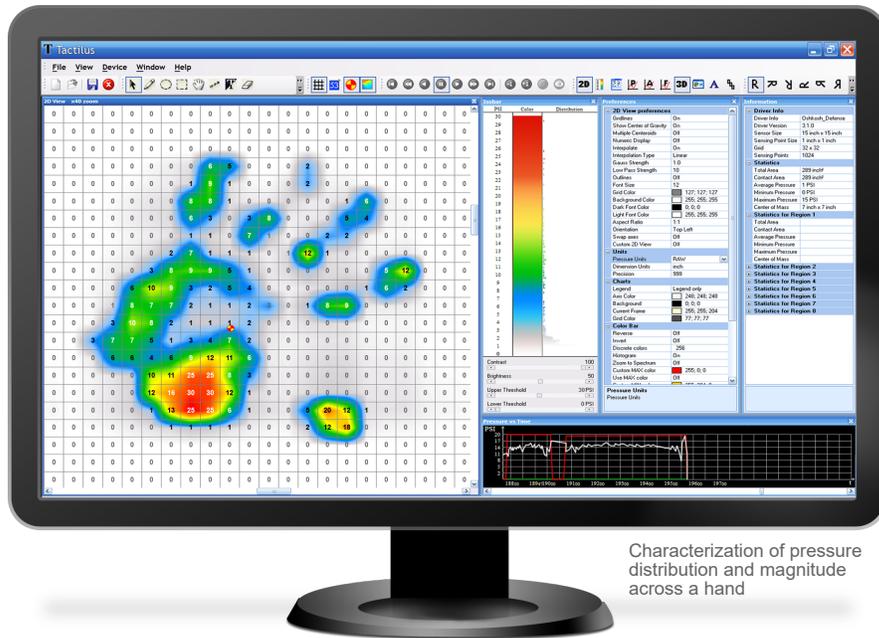
Hub and sensor element

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

Surface Pressure Range
 *0 - 300 PSI (0 - 21 kg/cm²)

Matrix Size
 Up to 63 x 55 lines

Sensing Points
 Up to 3, 465 total

Sensing Area Size
 Up to 15 x 36 in. (38 x 91 cm)

Scan Speed
 Up to 800 FPS

Temperature Capability
 Up to 176°F (80°C)

Spatial Resolution
 From 0.06 in. (1.6 mm)

Thickness
 16 mils (0.4 mm)

Accuracy
 ± 10%

Repeatability
 ± 2%

Hysteresis
 ± 5%

Non-linearity
 ± 1.5%

*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