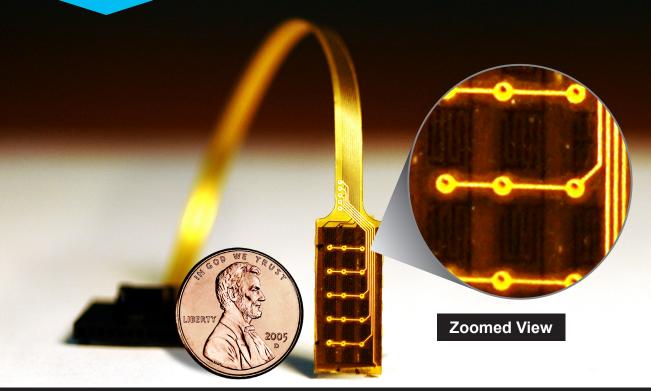


Ultra Sensitive Applications



Tactilus T-Series Sensor with 18 Sensing Points Spaced 2.5 mm Apart

NIST TRACEABLE

The Tactilus® T-series system is our **thinnest** and **most sensitive** tactile sensor system we've ever developed!

WHAT IT DOES

Tactilus® allows the user to capture and record pressure conditions occurring 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.

THE INNOVATION

Exciting advancements in conductive ink printing have allowed us to develop a sensor that has less batch to batch variation, greater accuracy, and a level of durability that is often associated with hand tools.

Tactilus® T-series is so thin and packed with such tight spatial resolution it's the closest thing you'll see to human skin. By biomimicking human skin we've taken surface contact pressure measurement to a whole new level.

The Tactilus® sensor consists of a series of interlaced lines that create a matrix with as many as 1,024 unique sensing points. Tactilus® Windows® based tool-kit scientific software communicates with the sensor up to 1,000 times per second - fast enough for impact force measurement. For users desiring direct interfacing with their own control software Sensor Products can supply an API and DLL.

COMMON APPLICATIONS

Human Body Interface: grip pressure, ergonomics, joint analysis

Packaging: heat sealing, nip pressures, lamination

Automotive: door seals, fuel cells

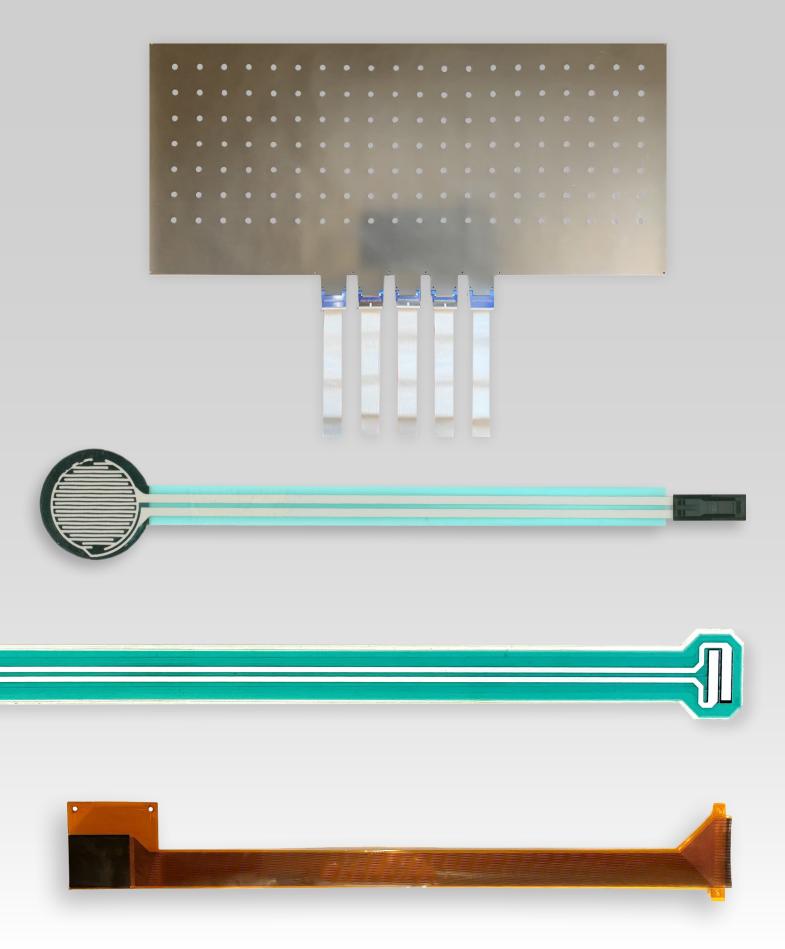


Electronics: heat sinks, nip pressures, lamination, LCD bonding,



Aerospace: composite bonding

Example T-Series Sensors



AN IDEAL APPLICATION: HUMAN BODY INTERFACE

Physical human interface is every bit as important as graphical computer interfaces, but the world hasn't invested in analysis and research in these areas commensurate with the opportunity at stake. Tactilus® T-series allows the flexibility of recording human interface pressure from multiple regions simultaneously. The Tactilus® T-series is the most economical, scientific and user-friendly system for surface pressure mapping available today. Bringing human factors and ergonomic engineering to a new level, Tactilus® T-series aids the test or design engineer in optimizing the trade-off often made between sensitivity and sensor flexibility.

BENEFITS

- Thinness allows placement in extremely tight spaces.
- Sensing point size is the smallest in the industry 0.01 inch!
- Durability is in the millions of cycles.
- True calibration. Our sensors are NIST traceable.

SPECIFICATIONS

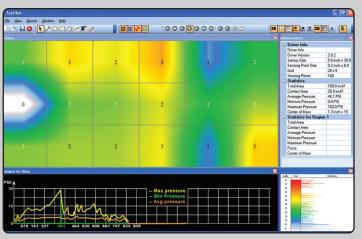
Technology	Resistive Ink
Pressure Range	0.1 - 25 PSI (0.007 - 1.76 kg/cm²)
Max. Sensor Size	9.84 in x 15.75 in (250 mm x 400 mm)
Min. Sensor Point Size	0.01 in x 0.01 in (0.25 mm x 0.25 mm)
Minimum Thickness	7 mils (0.178 mm)
Minimum Spacing	0.003 in (0.076 mm)
Max. Sensing Points	1,024
Temperature Range	-15° F to +200° F
Min. Scan Speed	194 Hz
Substrate	2 mil Myler - thinnest PET
Accuracy	± 10%
Repeatability	± 2%
Hysteresis	± 5%
Non-linearity	± 1.5%
Drift	< 10% per log (time scale)
Calibration	NIST Traceable
Wireless	WUSB (min. of 40 Hz); 30 ft (9.14 m) range
Software Platform	Windows 7, 8

¹An API can be provided to users who need to real-time connectivity to their own software.

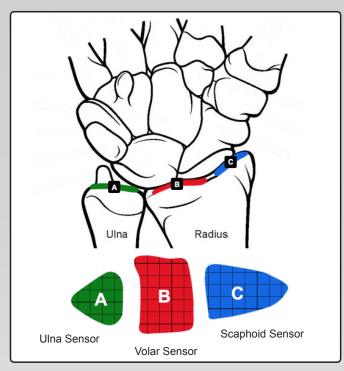
^{*}HP (high precision) Free Form sensors can characterize pressure at +-5%.



300 Madison Avenue Madison, NJ 07940 USA Phone: 1.973.884.1755 Fax: 1.973.884.1699 info@sensorprod.com



Screenshot of Tactilus® software



Example Biomechanic Applications



Example Nose Pinch Pressure