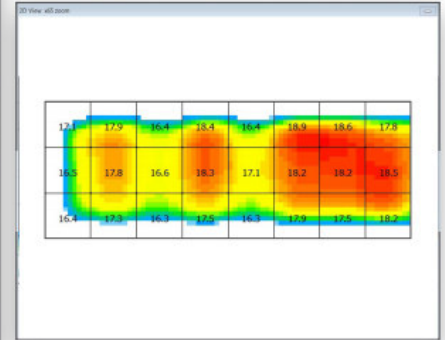
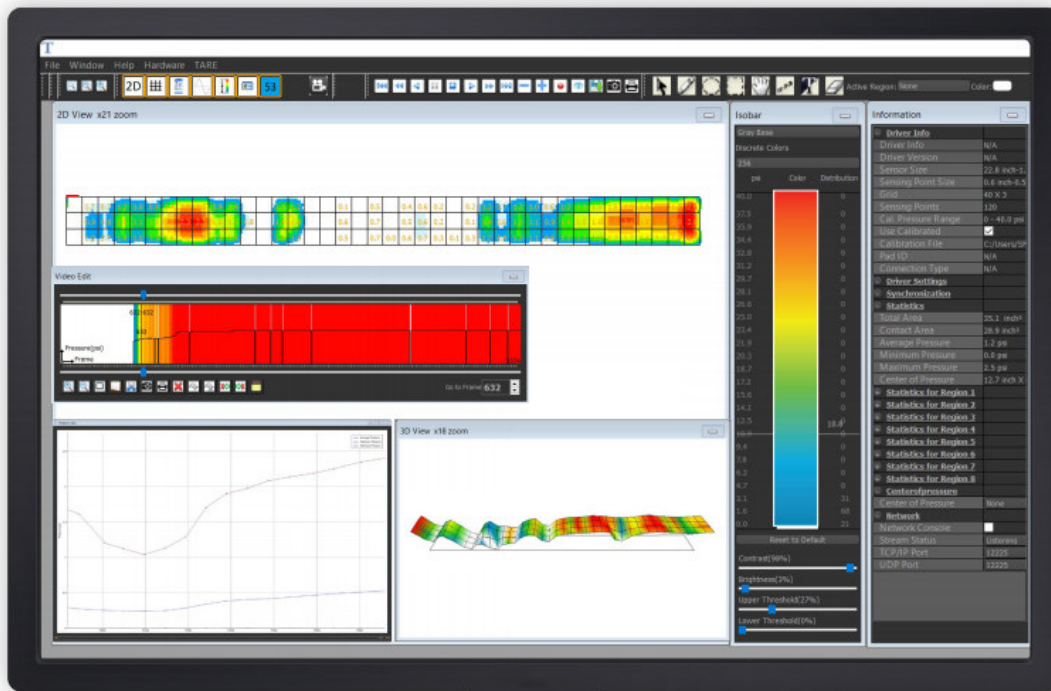


# Tactile Surface Pressure Mapping in High Temperature Environments



Up to 392°F (200°C)!

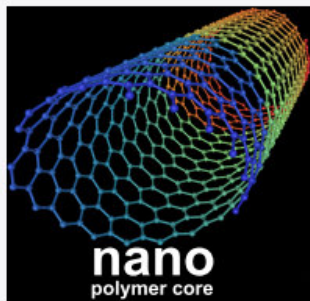


Zoomed view



## Tactile Surface Pressure Analysis

**THE INNOVATION:** Exciting advanced in conductive ink printing have



nano  
polymer core

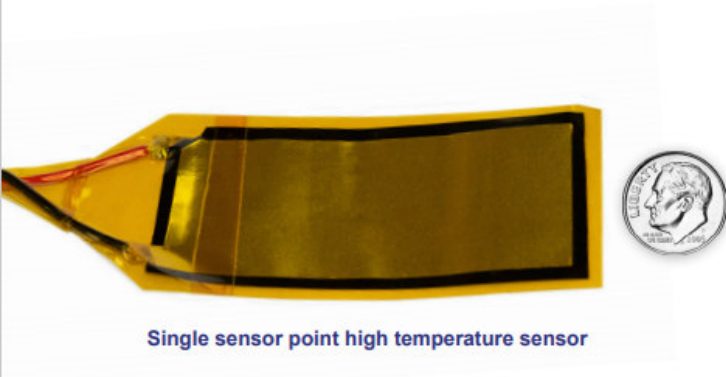
allowed us to introduce the tightest resolution available in the market. It literally provides almost the same spatial resolution of touch sensation as the human finger! State of the art stainless steel silk screens, constructed at high-tension and made in a clean room environment are the foundation for our new ultra high density sensors.

**WHAT IT MEANS:** 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.

# Tactilus® Surface Pressure Mapping in High Temperature Environments



## Common Applications



### Aerospace

composite layup, fuel cell, lamination



### 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

## 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.

## Specifications

Active Technology	Nano-tube composite
Surface Pressure Range	0 - 100 PSI (0 - 10.5 kg/cm <sup>2</sup> )
Matrix Size	Up to 32 x 64
Sensing Points	Up to 2,048 total
Sensing Area Size	Up to 24 in. x 120 in. (61 cm x 305 cm); customizable
Scan Speed	Up to 100 FPS
Temperature Capability	Up to 392°F (200°C)
Spatial Resolution	From 0.2 in. (25.4 mm)
Thickness	16 mils (0.4 mm)
Accuracy	± 10%
Repeatability	± 2%
Hysteresis	± 5%
Non-linearity	± 1.5%

### Dr. Müller Instruments GmbH & Co. KG

Hasengarten 35  
61440 Oberursel  
Germany

Tel.: +49 6172 380 3727

E-Mail: [info@Mueller-Instruments.de](mailto:info@Mueller-Instruments.de).

