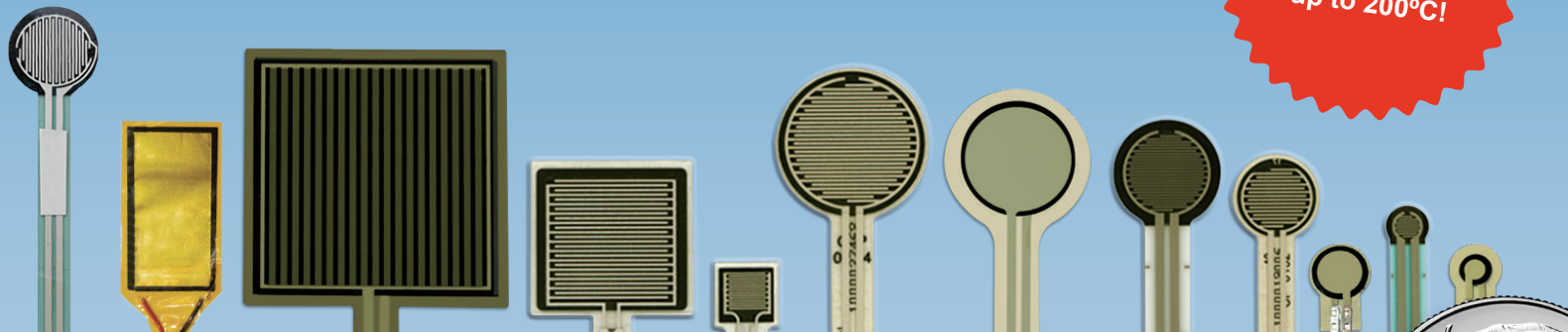


Tactilus[®] FREE FORM[®] Sensor System

Now with a higher temperature range, up to 200°C!



The Tactilus[®] free form sensor system is a “user constructed” tactile surface pressure system that provides unprecedented flexibility and ease of use. The free form philosophy is to empower the user to select the precise location where they require data collection rather than the constrained “matrix” inherent in traditional fixed surface sensor skins.

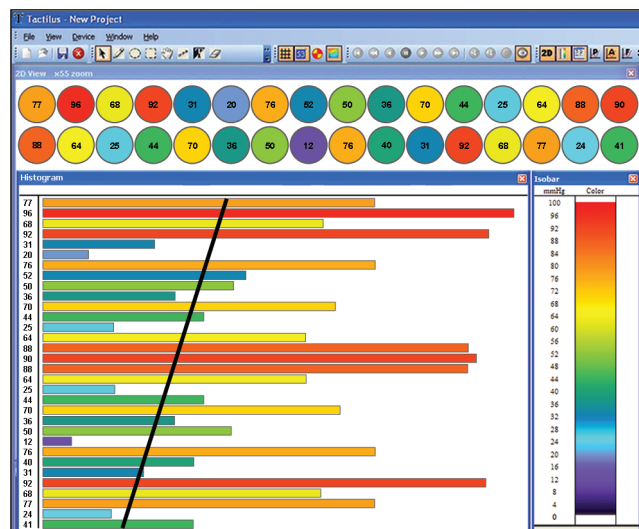
Designed for multi-axis or curvaceous topographies the Tactilus[®] Free Form sensor system provides engineers the capability to collect and assimilate data from up to 32 separate sensor elements simultaneously, at desired

locations on an application surface to maximize data collection efficiency and value. This new approach to tactile surface pressure mapping maintains data integrity and usefulness while allowing engineers the capability of constructing their own sensor “matrix.”

Unique to the industry, each Free Form sensor element is individually calibrated, sequentially serialized and quality tested to ensure the highest repeatability and accuracy. In addition, our sensor assemblies feature ergonomic and high quality Berg connectors, ensuring durable interconnection.



Single Sensing Point



Screenshot of software



Data collection hub with 8 sensor elements connected

Our high precision free form sensors are accurate to an unprecedented $\pm 5\%$!

COMMON APPLICATIONS

-  **Aerospace:** composite bonding, nip pressures
-  **Automotive:** door seals, impact forces, fuel cells
-  **Electronics:** heat sink analysis, nip pressures, lamination, LCD bonding
-  **Factory:** lamination, clamping, heat sealing, nip pressures
-  **Orthopedics:** joint analysis, ergonomics

SENSOR SPECIFICATIONS

Technology	Resistive
Pressure Range	0 - 400 PSI (0 - 28.1 kg/cm ²)
Dimensions	From 3 mm to 44 mm diameter
Thickness	14 mils or thinner
Durability	Up to 1 million cycles
Recommend Current	5 mA
Supply Voltage	3-6 VDC
Temperature Range	0° to 200°F (0° to 93°C)
Scan Speed	Up to 1,000 hertz
Repeatability	< $\pm 10\%$ of calibrated range*
Hysteresis	< 10% of calibrated range
Drift	< 10% per log (time scale)

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

*HP (high precision) Free Form sensors can characterize pressure at $\pm 5\%$.