Tactilus FREE FORM®

Sensor System

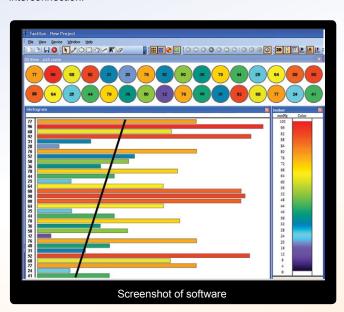
The Tactilus® free form sensor system is a "user constructed" tactile surface pressure system that provides unprecedented flexibility and ease of use. The free form philosophy is to empower the user to select the precise location where they require data collection rather than the constrained "matrix"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

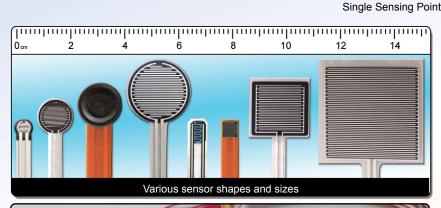
Salient features:

- 32 Channel simultaneous data collection
- Sensors are disposable and very economic

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.







Data collection hub with 8 sensor elements connected

COMMON APPLICATIONS



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 - 250 PSI (0 - 14.1 kg/cm²)
Dimensions	0.08 to 0.5 in (2 to 12 mm)
Thickness	From 10 mils (0.25 mm)
Durability	Up to 1000 uses
Recommend Current	5 mA
Supply Voltage	3-6 VDC
Temperature Range	0° to 113°F (0° to 45°C)
Spatial Resolution	Custom from 0.5 in (1.3 cm)
Resistance Range	00 MΩ to 500 Ω
Scan Speed	100 or 1000

System includes: sensor elements, electronic controller,