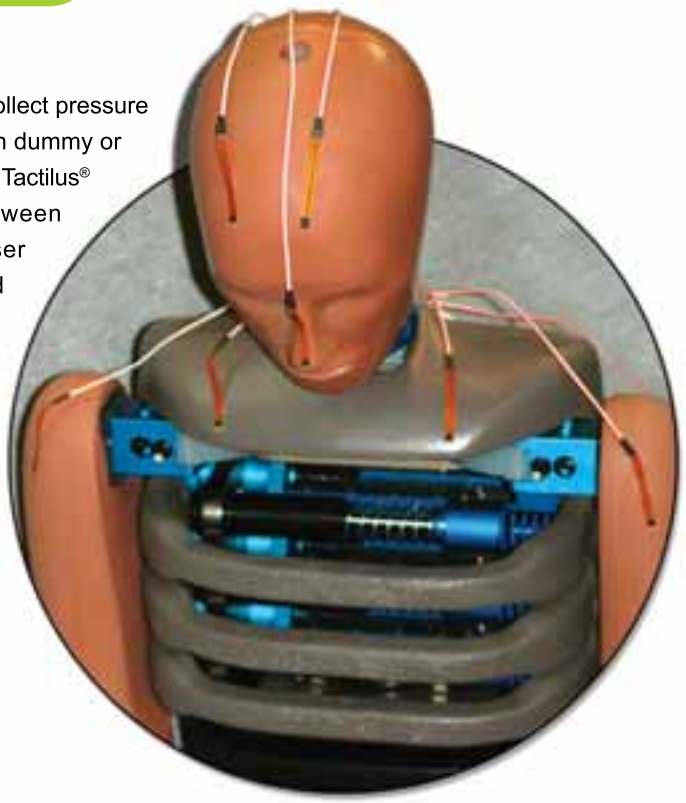
Tactilus® FREE FORM

# REAL-TIME TACTILE PRESSURE ANALYSIS

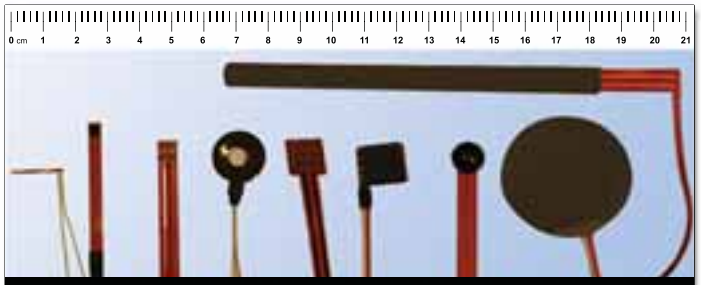
## Application: Airbag/Crash Dummy

The Tactilus® Free Form airbag impact sensor is designed to allow the user to collect pressure position and magnitude data at discrete selected locations across either a crash dummy or airbag interior. Bringing human factors and ergonomic engineering to a new level, Tactilus® aids the test or design engineer in optimizing the tradeoff often made between performance and comfort. 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 tactile surface sensors.



Tactilus® Free From sensors placed on a crash test dummy

Screenshot of analytical software



Various sensor shapes and sizes

### Key features:

- 16 Channel simultaneous data collection
- Sensors are disposable and very economical

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 16 separate sensor elements simultaneously, at desired locations on an application surface. Free Form was created to maximize both data collection efficiency and value.

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.

| SENSOR SPECIFICATIONS | |
|---|---|
| Dimensions | From 0.09 $cm^2$ - 12.9 $cm^2$ |
| Thickness | From 0.01" (0.25 mm) |
| Pressure Range | 0 - 2,000 PSI ( 0 - 140.6 $km/cm^2$) |
| Frame Speed | 30 Hz |
| Durability | Up to 10 uses possible |
| Recommended Current | 5 mA |
| Supply Voltage | 3 - 6 VDC |
| Operating Temperature | 0° - 113° F (0° - 45° C) |
| No Load Resistance | 00 MΩ |
| Max Load Resistance | 500 Ω |

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