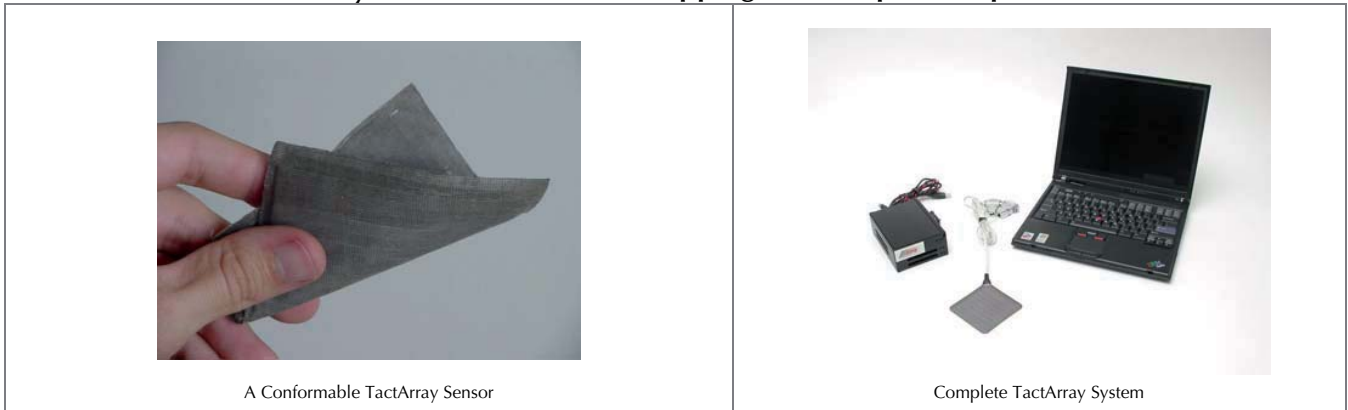


Conformable TactArray Sensors Pressure Mapping for Complex Shapes



A Conformable TactArray Sensor

Complete TactArray System

Conformable TactArray Sensors

Pressure Profile Systems' Conformable TactArray Sensors (CTS) are built from a flexible, conductive cloth, and combine outstanding sensitivity and repeatability in a conformable construction that allows the sensor to be wrapped around cylindrical objects or molded to shapes with multiple radii of curvature. CTS sensors can accommodate up to 10,240 sensing elements. They are compatible with PPS's TactArray line of signal conditioning electronics and can be customized to most shapes.

TactArray System:

Each TactArray system includes one sensor with 1.5 m cable, USB drive/interface electronics, power supply and cables, and real-time visualization & acquisition software

The software displays pressure array data in 3D mesh or multi-color grid formats for both real-time viewing or playback of recorded data. Data is stored in ASCII-delimited format for easy exporting. Custom 3D scanning is available so that pressures can be shown on the actual shape to which the sensors are bonded

System Options:

- Strobe output for synchronizing other DAQ equipment
- API for custom software development (Windows DLL)
- USB communication protocol for custom driver development
- Contact PPS for pricing information. Academic discounts are available.

System Capabilities:		Sample Output:
Max Pressure Range	0-200 psi (0-1,400 kPa)	
Dynamic Range	300:1	
Standard Resolutions	2, 2.5, 3.8 and 10mm	
Active Area	Up to 12" x 12"	
Thickness	1mm	
Temperature Range	-20° to 100°C	
Number of Elements	Up to 10,240	
Element-to Element Scan Rate	10 kHz	
ADC Resolution	12-bit	
Computer Interface	USB	

We reserve the right to vary the foregoing details without prior notice