

## Industrial TactArray Sensors High Pressure & High Temperature Applications



An Industrial TactArray Sensor (Brake-Pad Application)



Complete TactArray System w/ 2 ITS Sensors (laptop not Included)

### Industrial TactArray Sensors

Pressure Profile Systems' Industrial TactArray Sensors (ITS) measure pressure distribution at levels of up to 2000psi and can withstand temperatures up to 200°C, due to their Kapton™ membrane construction. ITS 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	0-2000 psi (0-14,000 kPa)	
Dynamic Range	300:1	
Resolutions	Inquire with PPS	
Active Area	Up to 12" x 18"	
Thickness	0.3 mm	
Temperature Range	-40° to 200°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