

T4000 Signal Conditioning Electronics

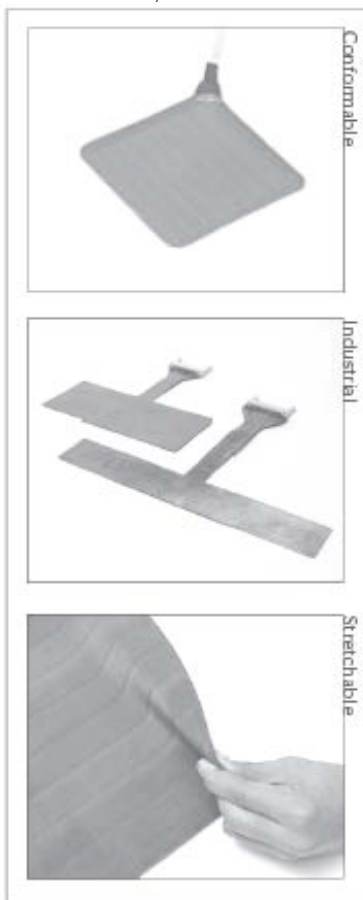
Pressure Profile Systems' high-performance drive electronics were developed to reliably detect the tiny changes in capacitance required to deliver the outstanding resolution made possible by the PPS sensor design. These proprietary circuits can detect capacitance changes of less than 4 thousandths of a picofarad.

Our latest system, the T4000 offers programmable reconfigurability to handle many different sensor sizes and power from USB allowing portable operation with a laptop battery configuration. The T4000 can currently support up to 1024 sensing elements and sample at up to 10kHz element-to-element. The scan rate for the entire sensor can be determined by dividing 10,000 by the number of sensor elements.

Compact and portable. Powered by USB 2.0 connection.



PPS TactArrays



Key Features & Benefits

- **Small and portable.**
- **USB 2.0 power connection**
(eliminates need for separate electrical power source).
- **Drives all PPS TactArray Sensors** (via software).
- **32 x 32 capacity.**

T4000 Specifications

Max number of elements	1024
Max element scan rate	10 kHz
ADC Resolution	12 bit
Computer Interface	USB 2.0
Enclosure Size	15.5cm x 20cm x 2.5cm
Weight	1.3lbs (600gm)
Option	API for custom software development (Windows DLL)