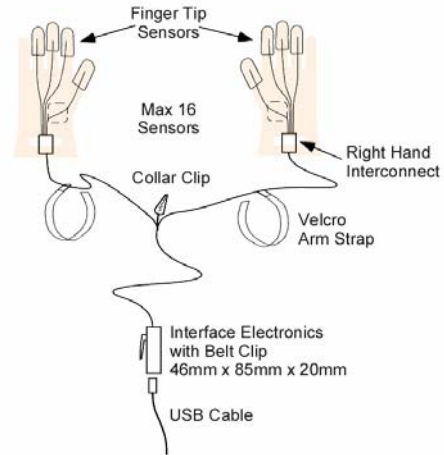


FingerTPS™ Fingertip Tactile Pressure Sensors



FingerTPS System being used in surgical training



System Diagram

FingerTPS™ Human Factors & Ergonomics Research Tool

PPS's FingerTPS system uses capacitive-based pressure sensors to accurately and reliably quantify applied forces. The sensors and wire harness do not impede object manipulation by the user. Data is displayed and captured in real-time, while allowing the user the mobility needed to perform most tasks. The FingerTPS Windows-based software displays and tracks time-series, average and peak pressures. The system consists of a USB interface box, sensing circuit, and one to eight sensors. Two glove systems (up to sixteen sensors) can be controlled through the same interface box

The FingerTPS system is designed as a research & development kit. Specific customizations, including fitted-glove systems, are available upon request for volume orders.

Part Numbers:

2332: FingerTPS System
2336: Finger Sensor – Large

2334: Finger Sensor - Small
2337: Palm Sensor

2335: Finger Sensor – Medium

Contact PPS for pricing information. Academic and bulk discounts available.

Typical Performance:

Thickness	~ 2 mm
Force Range:	0 – 10 lb
Sensitivity	0.1 lb
Temperature Range:	0 – 50°C
Repeatability	< 4%
Scan Rate:	30 Hz
Power Requirements:	USB-Powered
Interface:	USB 1.1
Calibration	Piecewise Linear Fit

Sample Output:

