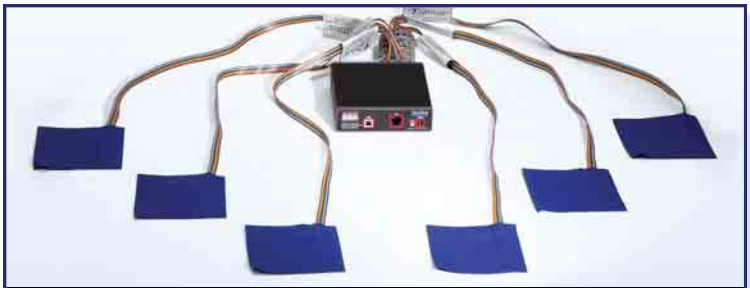
Tactilus® FREE FORM

TACTILUS FREE FORM FAMILY OF PRODUCTS

Application: Human Body Interface

The Tactilus® Human Body Interface sensor system is designed to allow the user to collect pressure, magnitude and distribution data from selected locations across the human body. 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® Human Body Interface sensor system

Tactilus® Technology: Tactilus® is a matrix based tactile surface sensor. Essentially an “electronic skin” that records and interprets pressure distribution and magnitude between any two contacting or mating surfaces and assimilates that data collected into a powerful, yet user-friendly, Windows® based tool kit. Each Tactilus® sensor is carefully assembled to exacting tolerances and individually calibrated and serialized. The architectural philosophy of Tactilus® is modular allowing for portability, easy expansion, and simultaneous data collection of up to 6 discrete sensor pads. Tactilus® employs sophisticated mathematical algorithms that intelligently separate signal from noise, and advanced electronic shielding techniques to maximize environmental immunity to noise, temperature and humidity. Our proprietary sensor design ensures the most robust sensor in the industry - an investment that will sustain thousands of uses.

Tactilus® Human Body Interface sensor system in action

Physical human interface is every bit as important as graphical computer interfaces, but the world hasn't invested in analysis and research in these areas commensurate with the opportunity at stake. Tactilus® allows the flexibility of recording human interface pressure from multiple regions simultaneously. Tactilus® Human Body Interface sensor system is the most economical, scientific and user-friendly system for surface pressure mapping available today. 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.

INDIVIDUAL SENSOR ELEMENTS	
Technology	Piezoresistive
Pressure Range	0 - 100 PSI (0 - 7 kg/cm^2)
Grid Size	32 x 32
Sensing Points	1,024
Total Sensing Area	Customizable
Scan Speed	Up to 30 hertz
Spatial Resolution	Custom from 0.3 in (7.6 mm)
Thickness	30 mils (0.7 mm)
Accuracy	± 10%
Repeatability	± 2%
Hysteresis	± 5%
Non-linearity	± 1.5%

"The speed and size of this product has allowed us to create a truly differentiated product in our market. I think the bottom line is that you delivered and you and your team should be commended for your efforts and innovation." ~Ron Douthit, Vertex Golf

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