Floor Sensor Kits
Portable, Pressure Mapping Sensor Panels
By Tactex Controls

Product Overview

Tactex pressure mapping floor sensors use high density Kinotex® technology for superior resolution and optimal sensitivity. Each panel comes as an assembled unit with power supply and CAN-USB interface. Tactex floor sensor kits are suitable for use in product and concept testing and clinical trials to assist with:

- determining trajectory
- identifying heel vs. toe contact
- viewing pressure points
- assessing variations in pressure during postural change
- calculating speed of movement
- assessing stability/balance
- measuring force of contact.

Components

- Floor panel with rigid aluminum frame and easy-lift handles
- Durable, anti-slip sensor cover
- CAN-USB interface and 12 VDC power supply
- Pressure mapping and data logging software package

Sensor Performance

- All floor panel kits use high-resolution sensor tiles with 12.7 mm (0.5") centre-centre sensing point density
- Sample rates up to 50 Hz
- Proportional pressure data accurate up to 200lbs per 305 x 305 mm (12" x 12") of active sensing surface

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<th>Model Specifications</th>
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<td><strong>Metric</strong></td>
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* Individual sensing elements.
Tactile Sensing System Innovations

ABOUT KINOTEX TECHNOLOGY

Tactex Floor Sensors use a proprietary sensing technology called Kinotex RST™ to measure changes in force and pressure distribution. Kinotex® is based on a physical phenomenon related to the way that light scatters within a cellular foam. Kinotex RST™ uses opto-electronic devices to shine light into a foam sensing surface. When an object touches the surface of the sensor, the density of backscattered light within the foam changes in direct relation to the degree of force being applied. This change in light density is reported as pressure data which can then be analysed and interpreted as detailed movement metrics.

ADVANTAGES

- Highly sensitive
- Durable
- Scalable

RELATED PRODUCTS

- Tactex Sensor Tile
  Standard tiles which can be networked together to create pressure sensitive surfaces in a variety of shapes and sizes. 305 x 305 x 16 mm (12" x 12" x 5/8")

- High Resolution Tiles
  Sensor tiles with a higher density of sensing elements. 305 x 305 x 16 mm (12" x 12" x 5/8")

- Large Sensor Array
  Low resolution, flexible sensor mat. A low cost solution for monitoring trajectory or occupancy.

Simple, Durable Designs

Tactex floor sensor kits are portable yet sturdy enough to support the weight of a full grown adult through repeated use. A USB output ensures that the sensor can be connected directly with a PC or laptop without the need for additional adaptors. The CAN to USB interface and power supply are provided as a single unit with a built-in fan.

Flexible Data Logging Software

Tactex research-grade sensors come with a flexible software demo program and API to allow researchers, clinicians and product developers to gather data for use in their custom applications. Data can be viewed in real time or logged to .csv files. Custom software may be provided on request.

Contact sales@tactex.com for pricing.

Custom Projects

Tactex specializes in developing custom solutions. Our engineering team has extensive experience with rapid prototyping, firmware development, software development, digital signal processing and OEM integration. Contact sales@tactex.com and request to speak to an applications engineer to discuss your project.

3' x 15' (0.91 x 4.57 m) 
custom walkway

www.tactex.com