

A SERIES

Our advances in fabric-based resistive touch sensors have enabled us to develop a new generation of surface mapping sensors that are thinner, more durable, and more affordable than ever before. But the biggest advance is in sensitivity. With an activation force of just 0.1 PSI (0.07 kg/cm²), the Tactilus® L-Series is the most sensitive sensor on the market. When combined with our miniature Bluetooth Wireless transmitters, the L-Series offers unprecedented versatility. Whether your application requires pressure mapping over a large surface area (e.g., 1 m x 5 m) or a smaller area (e.g., 1 cm x 1 cm), the L-Series has you covered.

The Tactilus® sensor consists of a series of intersecting lines that create a matrix of up to 2,304 unique sensing points. Depending on the configuration and customer needs, L-sensors can also connect to two HUBs (one large and one small), providing high operational flexibility. For users who wish to directly interface the sensor with their own control software, Sensor Products can provide an API or DLL.





SENSOR SPECIFICATIONS

Technology	Resistive textile
Pressure Range	0.1 - 60 PSI (0 - 4 kg/cm²)
Max. sensor Size	3' x 16' (1 m x 5 m)
Min. Sensor Point Size	0.5 x 0.5 mm
Minimum Thickness	39 mils (1 mm)
Minimum Spacing	0.5 mm
Max. Sensing Points	4608 can be increased for custom configurations
Temperature Range	23°F / 104°F (-5°C / + 40°C)
Max. Scan Speed	194 Hz
Accuracy	± 10%
Repeatability	± 10%
Hysteresis	± 5%
Non-linearity	± 1.5%
Calibration	NIST Traceable
Wireless	Bluetooth
Software Platform1	Windows, Android
Repeability Error	± 3%

The human physical interface is as important as graphical computer interfaces, but the world has not invested in analysis and research in this area commensurate with the opportunities it offers. The Tactilus® L-Series allows human interface pressure to be recorded on multiple areas simultaneously.

The Tactilus® L-Series is the most cost - effective, scientific and easy-to-use surface pressure mapping system available today. Taking ergonomic and human factors engineering to a new level, the Tactilus® L-Series helps engineers, test and design technicians optimize the trade-off between sensing sensitivity and sensor flexibility.

Tactilus®

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TACTILE PRESSURE EXPERTS

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