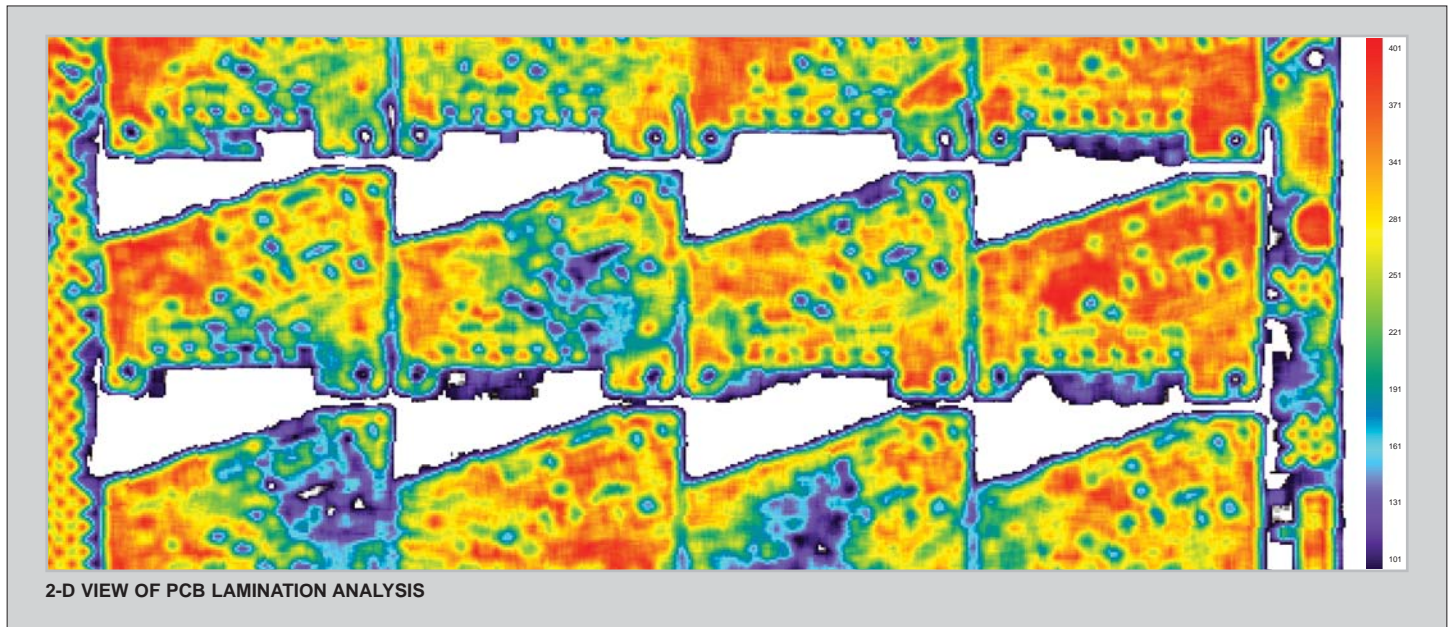


# DYNAMIC TACTILE PRESSURE ANALYSIS

## Printed Circuit Boards

**Evaluate Printed Circuit Boards:** Tactilus® is the most powerful and efficient tool available for mapping and measuring tactile surface pressure distribution and magnitude real-time. This electronic pressure profiling technology quickly and accurately indicates material excess, cracks, delaminations, and voids in plastics and other materials, and helps to assess, component alignment in printed circuit board design. The spatial resolution of the system's sensors is fine enough to expose minute surface defects, patterns and other imperfections as well as detect lower/higher pressure areas of contact, thus improving the research, set up, design and materials processes. Through the interpretation of pressure data obtained from the Tactilus® system, a designer, manufacturer or researcher of printed circuit boards can ensure uniform pressure distribution. This dynamic pressure mapping system is used worldwide by researchers, designers, manufacturers and testing labs.

**Flexible, Robust and Portable:** The Tactilus® sensor element captures and assimilates surface pressure statistics with high resistance to electromagnetic noise, temperature and humidity fluctuations. The system may be employed for any application where two surfaces mate, contact or impact. Not only is Tactilus® conformable to highly curvaceous surfaces and intolerant environments, but it is portable and runs on a standard laptop computer. The system comes equipped with all software and hardware necessary to collect data for comprehensive analysis.



**Basic Features:** The Tactilus® system collects pressure data and sends it as an analog signal back to an intermediary data "hub" where it is converted to a digital signal. This signal is sent to a interface software designed for easy viewing and evaluation. The Tactilus® software is Windows-based, feature rich and provides 2-D and 3-D imaging, region-of-interest viewing, longitudinal and latitudinal analysis, graphical displays of data in bar, pressure vs. time, line scan, histogram and isobar charts, statistical analysis of average/minimum/maximum pressures, total force over any selected area and more. The data may also be exported to virtually any third party software.

SENSOR SPECIFICATIONS	
Pressure Range	0.01 to 200 PSI (0.007 to 14.10 kg/cm <sup>2</sup> )
Sensor Size	Customizable from 1 sq in. (2.54 cm <sup>2</sup> )
Spatial Resolution	Customizable from 0.03 inches (0.8 mm)
Scan Speed	100,000 sensing points per second
Accuracy	±10%
Repeatability	±2%
Hysteresis	±5%
Non-Linearity	±1.5%

FEATURES
• 100% customizable
• Pre-calibrated for specified pressure
• Provides real-time analysis
• Resistant to electromagnetic noise, temperature and humidity fluctuations
• Flexible and durable sensor element
• Modular architecture with interchangeable sensor elements
• Intuitive and user friendly Windows® compatible software