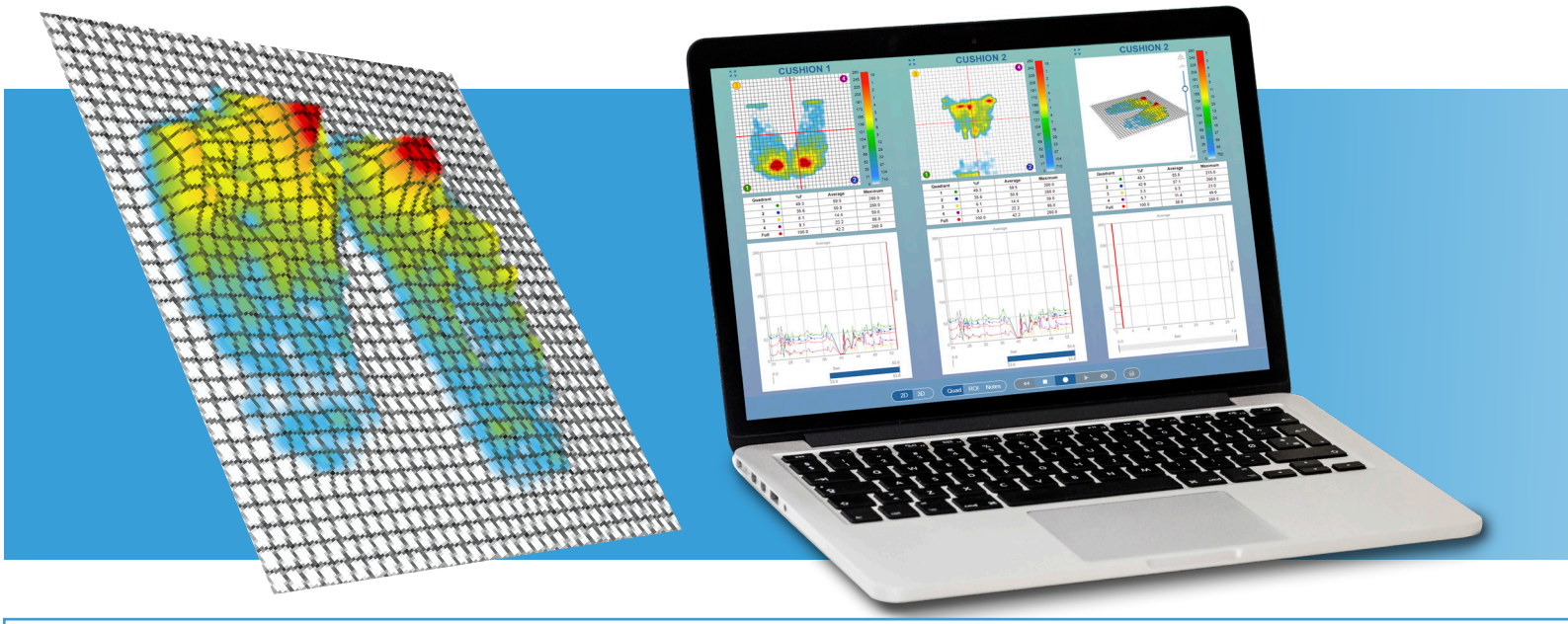
# Tactilus® Seat and Back Sensor Solution




**ABOUT THE PRODUCT —** The Tactilus® Seat and Back Sensor System delivers real-time surface pressure distribution between a person and their seating surface. Bringing human factors engineering to a new level, The Tactilus® Seat and Back Sensor System is capable of characterizing pressure magnitude of the seat surface, back and head rest simultaneously. The Tactilus® Seat and Back Sensor System then assimilates the data collected into our powerful Windows® based software providing you with everything from pressure maps to detailed statistical analysis. In the design of seating surfaces, position, density and conformity of materials is critical. The Tactilus® Seat and Back Sensor System not only significantly reduces the number of test iterations required, but is a revolutionary design aid towards the quest for ergonomic fit. Sensor Products works closely with each individual client to tailor a system for your particular needs. Private labeling and branding of the software and hardware with your logo and identia is available.

**THE TECHNOLOGY —** The Tactilus® Seat and Back Sensor System is a matrix based tactile surface sensor that works by the principle of piezoresistance. Tiny sensing cells cover the entire surface area of our sensor "skin" allowing for discrete spot pressure analysis at any point in the contact region. Sensor Products primary proposition is to offer our clients precisely what they require or need. To that end, everything we design can be completely tailored to your unique situation.

| Specifications Per Sensor | |
|---|---|
| **Technology** | Piezoresistive |
| **Number of sensor pads** | 2 |
| **Pressure Range** | 0 - 5 PSI (0 - 0.35 kg/cm$^2$) |
| **Grid Size** | 32 x 32 |
| **Sensing Points** | 1,024 |
| **Total Sensing Area** | 18.3" x 18.3" (46.5 x 46.5 cm) |
| **Scan Speed** | USB 50 hertz (WIFI 10 hertz) |
| **Spatial Resolution** | From .59 in. (1.5 cm) and finer |
| **Thickness** | .098 in. (2.5 mm) |
| **Accuracy** | ± 10% |
| **Transmission Range** | 66' (20 meters) WIFI |
| **Transmission Mode** | USB cable or WIFI |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