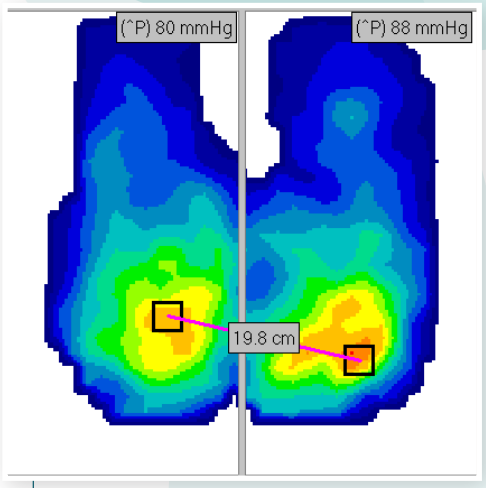
Tekscan®

CONFORMat®

Seating & Positioning System

Objective pressure analysis of seating and positioning

The CONFORMat system provides accurate, real-time information on pressure distribution and Center of Force (CoF) movement that helps providers develop optimal seating and positioning strategies for each individual patient. The specially designed flexible CONFORMat sensor conforms to the patient and support interface to ensure accurate pressure measurements.



CONFORMat's clear, color-coded display identifies high-pressure areas (in red) and shows the effect of positioning changes in real-time.

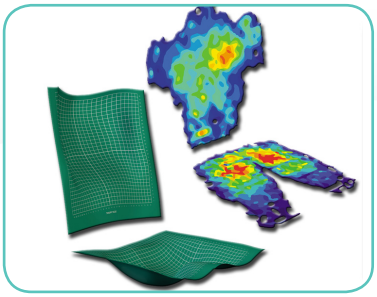
Why use pressure mapping?

- Validate cushion selection
- Identify unseen asymmetries
- Improve custom seating designs
- Provide clear visual feedback to patients
- Optimize seating to eliminate the risk of pressure ulcers
- Conformable sensor technology ensures accurate, repeatable pressure mapping measurements

Pressure mapping can save you the cost & burden of ulcers

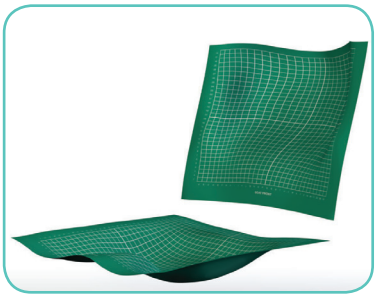
Experts estimate that approximately 2.5 million people suffer pressure ulcers in U.S. hospitals each year, costing the healthcare system millions of dollars[2]. A simple pressure mapping exam helps prevent pressure ulcers in patients, saving money and avoiding unnecessary pain and suffering. It also provides objective documentation for treatment selections, and supports evidence-based justification for insurance claims.

Why CONFORMat?



Accuracy – In a recent study[1], the CONFORMat sensor was found to have the least overall influence between buttocks and common seat cushions.

Patient Satisfaction – Visual feedback of changes in the pressure profiles can encourage better patient satisfaction and compliance.



Flexible Sensor Design – As the name suggests, the CONFORMat conforms to the subject and seating interface ensuring consistent and accurate results. The sensor contains over 2,000 sensing elements that can move independently of each other in three dimensions, giving the most accurate interface pressure measurements.

CONFORMat Software

All Tekscan software works with current Windows based operating systems. To view the complete computer requirements, visit: www.tekscan.com/computer-requirements.

1 - Pipkin & Sprigle (2008) Effect of Model Design, Cushion Construction, and Interface Pressure Mats on Interface Pressure and Immersion. JRRD, Vol. 45, No. 6, pp. 875–882.
2 - "Strategies for Preventing Pressure Ulcers", The Joint Commission Perspectives on Patient Safety, Volume 8, Number 1, January 2008, pp. 5-7.

Tekscan®

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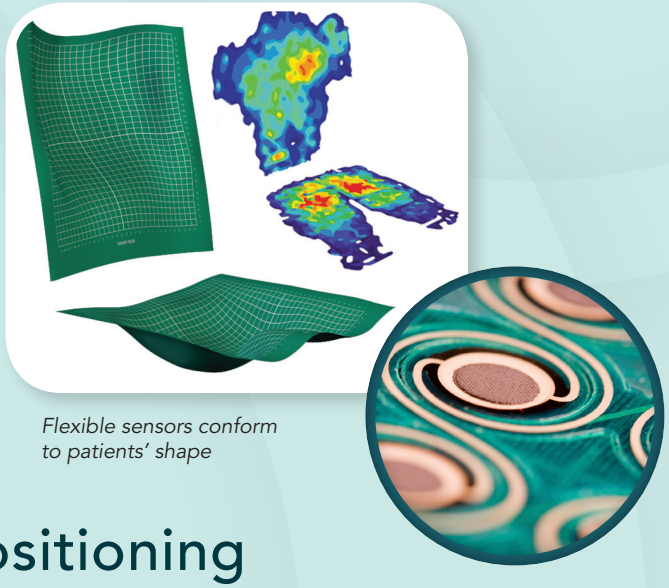
Call Today for a Demonstration!

Seating & Positioning

Objective Data for Pressure Offloading

Tekscan's pressure mapping systems easily assess areas in need of offloading. Our unique sensor design is flexible and conforms to the patient in order to gather accurate interface pressure measurements. By identifying areas that cause concentrated pressures, our systems show you where the pressures need to be relieved. Reliable pressure readings enable you to optimize seating, bedding, cushioning and positioning solutions. Quantitative results and visual pressure displays allow you to effectively communicate with your patients and treat areas of high pressure, potential discomfort, and areas at risk for potential ulcerations.



Flexible sensors conform to patients' shape

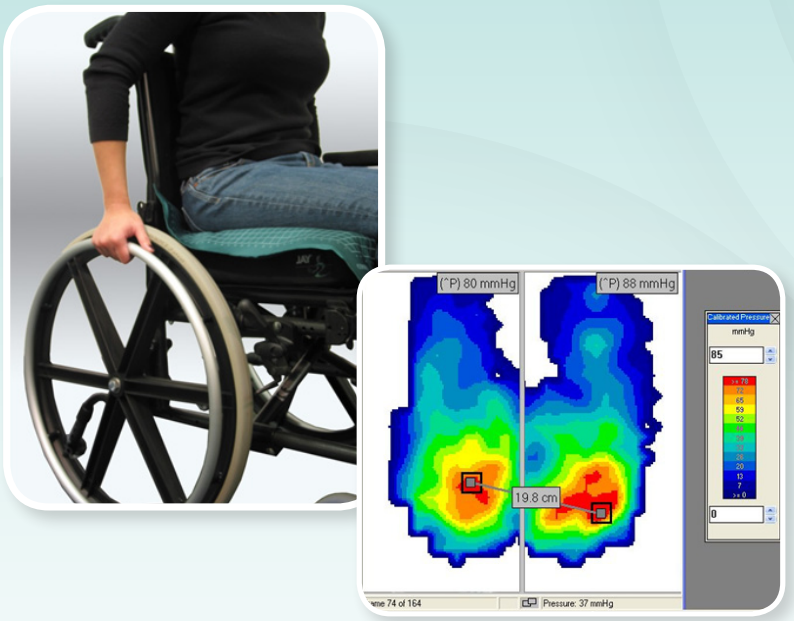
How Tekscan's Seating & Positioning Systems Can Help:

- Pre- and post-surgical evaluations
- Screen for and monitor treatment of pressure sores, ulcers, wounds, and high risk areas
- Increase patient compliance
  - – Engage patients with vivid color display and provide them with clear, visual feedback
- Evaluate areas of patient discomfort, seating and posture abnormalities, unseen asymmetries and pelvic obliquities
  - – Enhance satisfaction with seating and bedding optimization
  - – Validate wheelchair cushion selection and adjustments

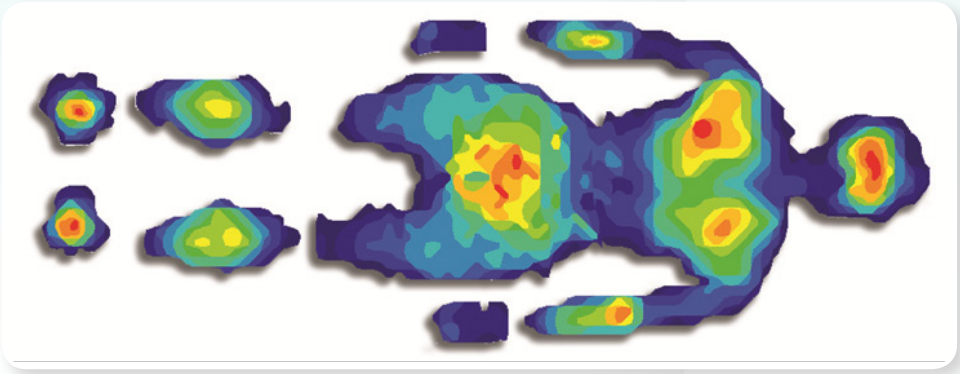
Trusted & Proven Solutions

In a recent study[1], our technology was found to have superior performance over other interface pressure devices:

- More accurate pressure magnitude readings at areas of highest loading and at the most complex curvatures
- Buttocks immersion indicating least amount of hammocking
- Least overall influence between the buttocks and common seat cushions



Seating pressure profile with Tekscan's CONFORMat System



Full body pressure measurement profile with Tekscan's Body Pressure Measurement System (BPMS)

1 Pipkin & Sprigle (2008) Effect of Model Design, Cushion Construction, and Interface Pressure Mats on Interface Pressure and Immersion. JRRD, Vol. 45, No. 6, pp. 875–882.

Tekscan®

CONTACT US TO LEARN MORE

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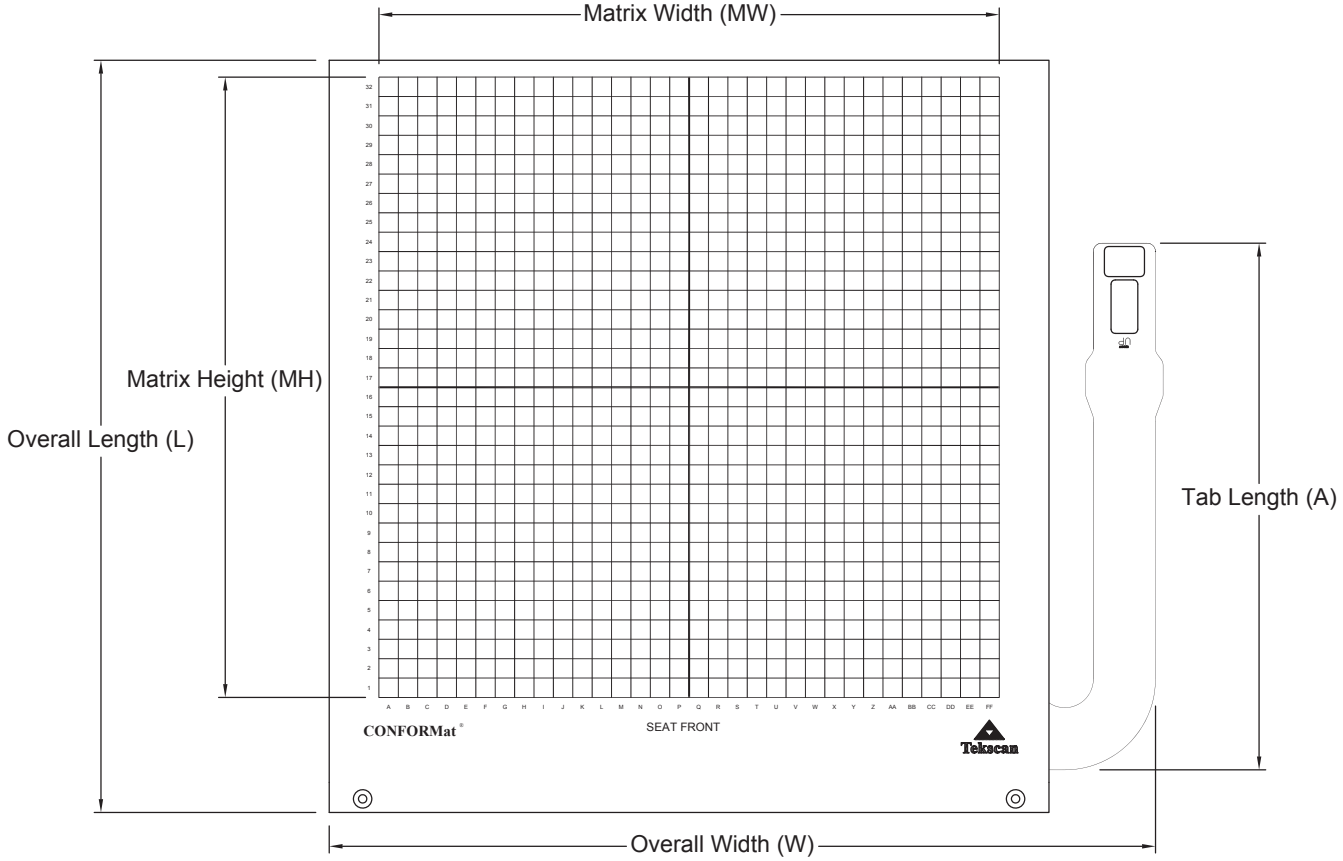
Tekscan® Medical Sensor 5330

Pressure Mapping, Force Measurement, and Tactile Sensors



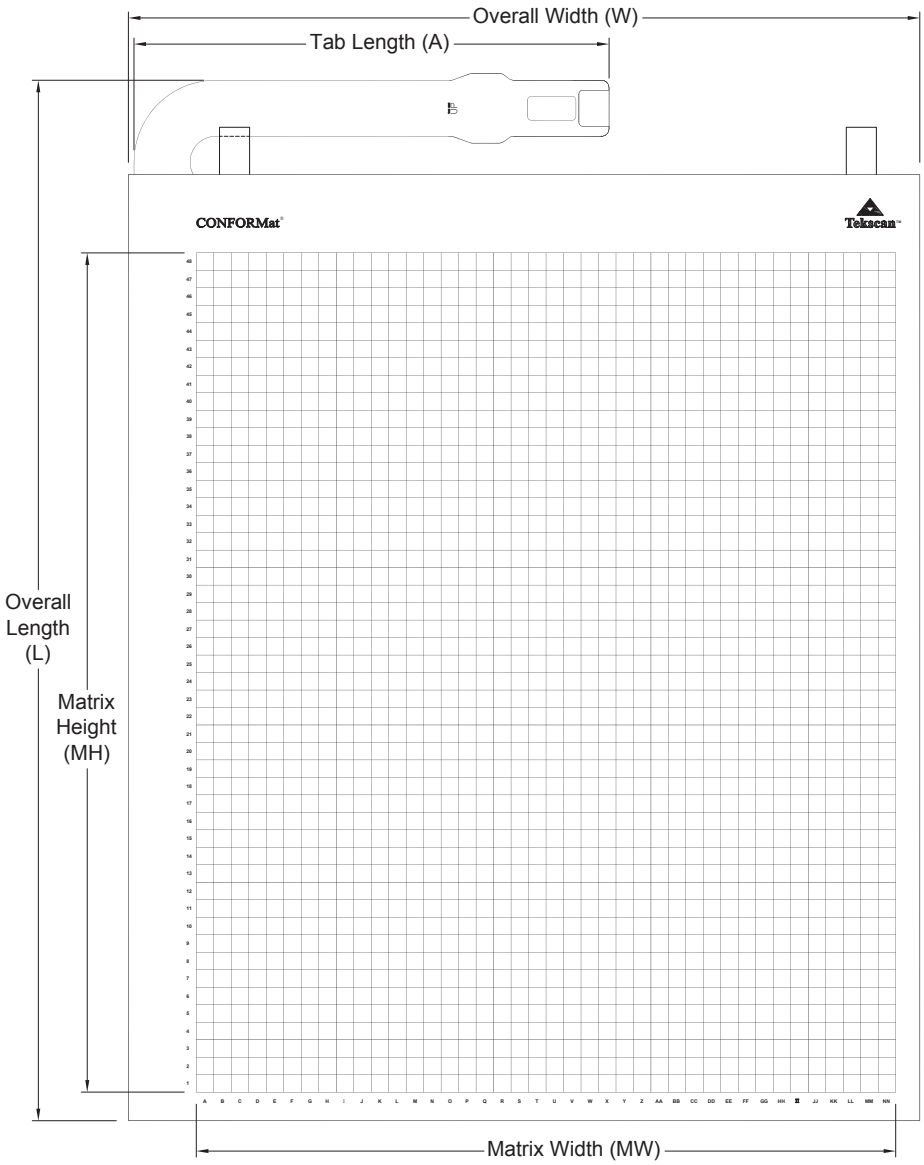
General Dimensions			Sensing Region Dimensions								Summary	
					Columns			Rows				
Overall Length *L*	Overall Width *W*	Tab Length *A*	Matrix Width *MW*	Matrix Height *MH*	*CW*	Pitch *CS*	*Qty.*	*RW*	Pitch *RS*	*Qty.*	Total No. of Sensels	Sensel Spatial Resolution
(mm) 571.5	(mm) 627.4	(mm) 400.3	(mm) 471.4	(mm) 471.4	(mm) 6.4	(mm) 14.7	32	(mm) 6.4	(mm) 14.7	32	1024	(sensel per sq-cm) 0.5
(in) 22.50	(in) 24.70	(in) 15.76	(in) 18.56	(in) 18.56	(in) 0.25	(in) 0.58	32	(in) 0.25	(in) 0.58	32	1024	(sensel per sq-in) 3.0

Pressure Ranges

kPa	34
psi	5

Tekscan™ Pressure Mapping Sensor 5331

Pressure Mapping, Force Measurement, and Tactile Sensors



General Dimensions					Sensing Region Dimensions						Summary	
Overall Length *L*	Overall Width *W*	Tab Length *A*	Matrix Width *MW*	Matrix Height *MH*	Columns			Rows			Total No. of Sensels	Sensel Spatial Resolution
					CW	Pitch *CS*	*Qty.*	*RW*	Pitch *RS*	*Qty.*		
(mm) 876.3	(mm) 666.8	(mm) 400.1	(mm) 589.3	(mm) 707.1	(mm) 6.4	(mm) 14.7	40	(mm) 6.4	(mm) 14.7	48	1920	(sensel per sq-cm) 0.5
(in) 34.50	(in) 26.25	(in) 15.75	(in) 23.20	(in) 27.84	(in) 0.25	(in) 0.58	40	(in) 0.25	(in) 0.58	48	1920	(sensel per sq-in) 3.0

Pressure Ranges

kPa	34
psi	5

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Tekscan®

BPMS™ System

Seating & Positioning Analysis

Objective pressure measurement & positioning tool

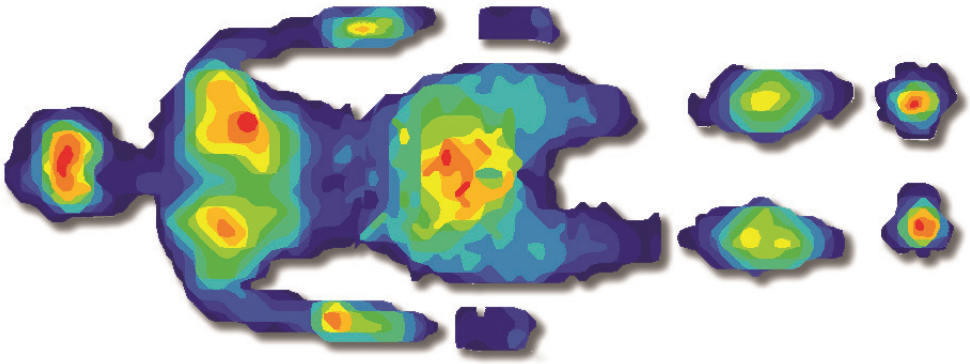
BPMS (Body Pressure Measurement System) is the most powerful and versatile pressure measurement and positioning tool of its kind. It provides accurate and reliable pressure readings enabling you to optimize seating, bedding, cushioning and positioning solutions. By pinpointing anatomical structures that cause concentrated pressures, BPMS shows you where the pressures need to be relieved.

BPMS ensures precise measurement of location and magnitude of peak pressures without altering the support surface characteristics. Improve patient documentation and communication with a more effective way to identify pressure related problems which provides quantitative results and visual pressure displays.

Pressure mapping allows you to

- Screen for pressure sores, ulcers, and wounds
- Identify pressure on high risk areas
- Monitor progression and treatment of wound ulcerations
  - Reduce the incidence of ulcers & speed healing time
- Perform pre-/post-surgical evaluations
- Assess seating and posture abnormalities
- Scientifically select cushions and positioning
  - Enhances patient satisfaction with support surfaces
- Provide tangible, visible biofeedback for the client

BPMS™ Analysis

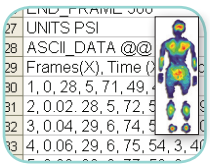


Subject shown lying on a 2-sensor configuration (model #5400N). The high spatial resolution of the sensor allows you to measure and display the high pressure areas (in red) as the subject is lying down (back of head, left scapula, right elbow, lower back, and back of heels).

Sensor Model	# of Mats	Sensing Area	# of Sensing Elements	Spatial Resolution
5315	up to 8	up to 1.95 x 0.85 m (6.40 x 2.80 ft)	up to 16,128	1 sensel™/cm² (6.25 sensels/in²)
5330	up to 2	up to 0.94 x 0.47 m (3.10 x 1.55 ft)	up to 2,048	0.5 sensel/cm² (3.0 sensels/in²)
5350	up to 2	up to 0.42 x 0.77 m (1.36 x 2.53 ft)	up to 3,116	1 sensel/cm² (6.25 sensels/in²)
5400N	up to 4	up to 2.31 x 0.88 m (7.56 x 2.90 ft)	up to 7,072	0.35 sensel/cm² (2.23 sensels/in²)

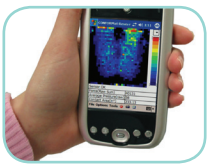
Related Products & Options

Research Software



Additional graphing capability, tools to isolate and segment anatomical regions, and ASCII output

Handheld/Wireless



Portable system using a PDA to retrieve data without a connection to the computer

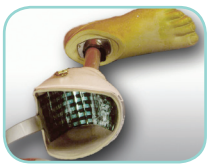
Video Synchronization™

Synchronize and play back both video and pressure data simultaneously

Pressure Measurement Mats

Add floor mat(s) for barefoot assessment

F-Socket™



Assessment of prosthetic pressures

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CALL TODAY FOR A DEMONSTRATION!

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