



emtec Press Release



Measure. Analyze. Digitize. Optimize.

Test textile haptic as never before with emtec Electronic

Germany's leading manufacturer for specialized measuring and testing equipment, emtec Electronic, promises to revolutionize the way textile manufacturers measure and manage textile haptics. Emtec presents its innovative new TSA Tactile Sensation Analyzer, designed to accurately measure and digitize the feel of textiles, taking production and quality control to new heights.

Leipzig, Germany, 14.08.2023 – The recently launched TSA Tactile Sensation Analyzer optimizes textile production by quickly delivering a reliable haptic and optical analysis of any material. The data are virtually accessible and easily reproducible using a new digital database.

“We expect the new TSA to be a game-changer for manufacturers wanting to improve and unify product quality, regardless of where the source material is coming from,” explains Alexander Gruener, Global Marketing and Business Development Manager for emtec.

The redesigned TSA allows manufacturers to objectively measure the subjective traits that determine the way a material feels to the touch, calculate specific hand-feel values, and reliably compare samples across sites. In addition to measuring softness, smoothness, flexibility, and deformation/recovery behavior, the TSA now features:

- **Surface thermal conductivity and thermal insulation measurement** – The TSA reliably measures a product's thermal “handshake,” delivering objective data on how warm or cool a material feels to the touch. This function is steadily gaining in popularity, since it paves the way for the design of innovative specialty products such as recreational clothing that feel cool to the touch even in the blazing sun, or lightweight outerwear that insulates as well as a down parka.
- **An improved design for measuring springback behavior** – The TSA employs an improved method for measuring springback behavior, which accurately captures the fabric's ability to return to its original shape after deformation. This feature allows manufacturers to evaluate the elasticity and resilience of textiles, ensuring they meet the desired performance standards.
- **An integrated high-resolution camera** – To digitize optical properties, the camera captures a high-resolution image of the sample, showing in detail the fabric structure, weave, as well as

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any visual embellishments.



- **A cloud-based Virtual Haptic Library** – The Library is an online database, available via license, in which sample data can be digitized, processed, and categorized according to specific haptic and optical traits. Developed in cooperation with Black Swan Textiles, the Virtual Haptic Library can be accessed in real-time by authorized personnel from anywhere in the world, enabling efficient quality assurance and control regardless of location. The Library can also be used as an online marketplace, making it easier for textile professionals to find, compare, and reproduce samples with certain haptic requirements.

“The Virtual Haptic Library gives designers, technicians, and quality controllers objective parameters to rate, compare and reproduce a product’s exact haptic properties, ultimately saving time, money and resources,” explains Gruener.



The new TSA Tactile Sensation Analyzer

The TSA Tactile Sensation Analyzer will be available to order in 2024. For more information, please visit www.emtec-electronic.de.





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About emtec Electronic

Emtec Electronic GmbH develops, produces and distributes worldwide testing and measuring devices for the detection of relevant processing properties of paper, board, nonwoven and textile materials. The portable measuring devices enable manufacturers and converters of paper, nonwoven and textile products for example, to control and optimize the manufacturing and converting processes during ongoing production. From the wet end to the final product, the application of the devices enables an efficient process to achieve and ensure the best possible quality with the least possible effort.

For 27 years, we have relied on innovative, highly specialized measuring instruments combined with a high degree of service orientation. Since the company was founded, we have been intensively involved in scientific cooperation with institutes and companies, further developing instruments for our customers and offering a broad network in over 80 countries from our Leipzig location.

For more information about emtec Electronic, please visit the website:

www.emtec-electronic.de

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