texsens®-g

garment sensor

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texsens®-g

The texsens®-g force measuring device was developed for mobile load measurement in the textile and garment industry.

The texsens®-g utilizes one fully calibrated, capacitive sensor which is connected to the small and lightweight loadpad® electronics. Mobile data acquisition, real-time transmission via Bluetooth, and data evaluation is captured with the loadpad® app for intelligent mobile devices. The app displays force over time and allows the definition of audio or visual feedback thresholds. The measured data can be stored on the smartphone and to the cloud and also transferred to a computer for detailed analysis.

The texsens®-g sensor is used, for example, for measurements under compression clothing when low contact pressures are to be detected during body movement. As the sensor is exceptionally thin and highly adaptable there is minimal disturbance to the proprioceptive perception.

The texsens®-g sensor is the ideal solution for highly accurate measurement and assessment of force production at very low pressures between the body and textiles.

Technical data of the texsens®-g sensor	
sensor size (mm)	Ø 10
strap length (mm)	400
electronics size (mm)	30 x 45 x 15
scan rate (Hz)	50 (standard)
pressure range (kPa)	1-10 (standard)
transmission	Bluetooth® LE
operating devices	iPhone, iPad, iPod touch, Android smart devices
power supply	3V coin cells (or rechargeable batteries)