



Ultra-thin, low-pressure sensor

texsens®

Unobtrusive low pressure sensing

texsens® enables the analysis of local pressures between soft interfaces (e.g. between skin & textiles).

Use texsens to precisely quantify pressure and **optimize your wearable products or garments.**

texsens® key features:

- measure low pressure values between soft surfaces
- measure reliably in situations with temperature fluctuation or deformation of the surface
- collect data from one or two sensors per device
- receive comparable datasets to define thresholds or optimize garment structure, layout, and material



Technical information

Conformability:
Flexible and positionable

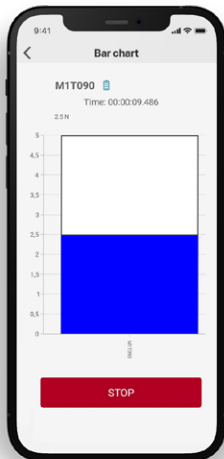
Sensor size
Ø 10 mm



Pressure range:
1 kPa - 10 kPa

Sampling rate:
50 Hz

loadapp® technical specifications



Connect up to 6 sensors

Synchronize measurement with video

Export data as ASCII and share instantly

Visualize data as time series and get
visual or audio feedback in realtime

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texsens® applications

The texsens® sensor is the ideal solution for highly accurate measurement and complete assessment of force production under garments where very low contact pressures occur and precision is required.

The sensor is used for measurements under compression clothing when very 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 measurement interface or the proprioceptive perception.

texsens® sensors

Technical data	texsens
number of sensors	1-2
dimensions (mm)	Ø 10 mm
sampling rate (Hz)	50
transmission	Bluetooth® LE
operating devices	iOS or Android mobile devices
power supply	3V coin cells

emed®

Accurate & reliable foot analysis

emed® enables the analysis of the barefoot at highest quality level.

Easily scan the **pressure distribution** and get a reliable and accurate **analysis of the foot function**.

loadpad®

Force evaluation on deformable surfaces

loadpad® enables the effortless measurement of forces on contact areas and interfaces.

Utilize the mobile, wireless and versatile sensors to **analyze contact forces** between objects accurately and reliably.

loadsol®

Truly wireless load measurement

loadsol® enables truly wireless in-shoe force measurement **now in any environment** and with **any movement**.

Capture the interaction between foot and ground **accurately, effortlessly**, and with **flexibility**.

pedar®

Leading system for in-shoe measurement

pedar® enables the analysis of the **interaction between the foot and the shoe** at highest quality and precision levels.

Use the system for **in-shoe pedography** and collect reliable pressure and load distribution data.

pliance®

Accurate surface pressure analysis

pliance® enables the measurement of force and **pressure** distribution between **3D-deformed interfaces**.

Utilize pliance to analyse pressure on **seats, saddles, mattresses** and any other soft or hard object.

buttonsens®

Quantifying fingertip forces

buttonsens® enables the quantitative analysis of **finger forces** and **dexterity**.

The textile sensor can be utilized to **measure forces** when pushing a **button** or at any other finger-object-interaction.