

SEFAR PresSense

SEFAR PresSense force-sensing resistor (FSR) or piezo-resistive fabric combines reliable pressure measurements with user comfort. The homogeneous, conductive fabric is especially suited for textile pressure sensing applications that require a durable, comfortable and breathable fabric.

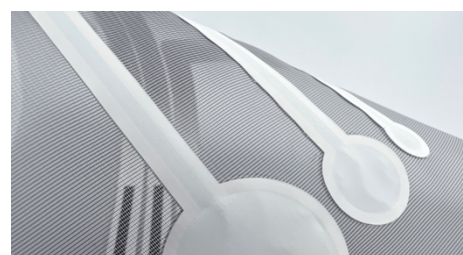
Product features

No compromise on sensitivity, design and comfort

Conventional pressure sensing technologies often don't live up to the standards of equipment manufacturers and their customers:

- Maintaining measurement precision over time is a challenge
- Current solutions lack comfort and breathability
- Size and customization limitations restrict design freedom

Break free from these constraints with SEFAR® PresSense Force Sensing Resistor fabric and combine unmatched quality, comfort, and versatility in your pressure sensing solution.



DOWNLOADS

Large scale textile pressure sensor (PDF 546 kb)

Benefit from superior material performance



Accurate pressure detection
Homogeneous fabric



High air permeability
Excellent gas and liquid flow ($> 5,000 \text{ l/m}^2/\text{s}$)

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Broad pressure range

3 fabric categories
from 0.1 - 150 N/cm²



Customizable structure

Any shape from small to large



Robust and durable fabric

Pressure testing for 1 million cycles



Ultra-thin and lightweight

Ultra-thin (< 135 µm),
lightweight (< 40 g/m²)



Washable fabric

Maintains its integrity
when washed



Quality compliance

ISO 9001, RoHS, REACH

Combine quality, comfort, and versatility



Reliable data reproducibility

Gathering reliable data with every measurement can be a challenge. Sefar PresSense fabric features consistent material quality and homogeneous fabric properties, validated by rigorous quality control procedures.

- Ensure consistent data accuracy and repeatability
- Minimize the need for calibration efforts

Long-term durability

Conventional technologies can deteriorate quickly under pressure and when washed. The robust woven

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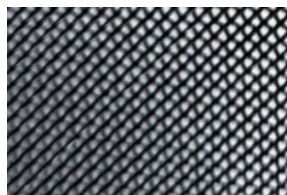
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structure of our fabric ensures continued performance under heavy and repeated pressure and withstands frequent washing.



- Extend the life of your product
- Benefit from accurate measurements over time



Supreme comfort

Traditional products are often stiff, crackly and lack breathability. The lightness, flexibility, and air permeability of our fabric allow for effortless integration into your pressure sensor without compromising on comfort.

- Go beyond plastics and add comfort to your sensor
- Benefit from the softness and breathability of textiles

Complete design freedom

Don't let technology limit your design aspirations. The broad pressure range of our fabric, combined with the flexibility of size and shape, open the door to full design flexibility and functionality for your product.



- Capture pressure and resistance data without limits
- Shape your product according to your vision

Flexible production planning

As a leading supplier of industrial fabrics, Sefar has the production capacity and global infrastructure to

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deliver PresSense fabric in the quantities you need, where you need it.

■ Rely on our flexible and fast global delivery services

■ Seamlessly scale up your production as the demand grows

Overcome technology limitations

	SEFAR® PresSense	Nonwoven	Plastic film
Data reproducibility	➔	➔	➔
Design flexibility	➔	➔	➔
Breathability	➔	➔	➔
Robustness	➔	➔	➔
Value for money	➔	➔	➔

Customize your textile pressure sensor

Simply integrate the Sefar FSR-fabric as the functional layer into your pressure sensor and add the electrodes and electronic components depending your use case. Combine the fabric with any type of electrodes including heat printed, embroidered, sewn or stitched, laminated, sandwiched and many more.

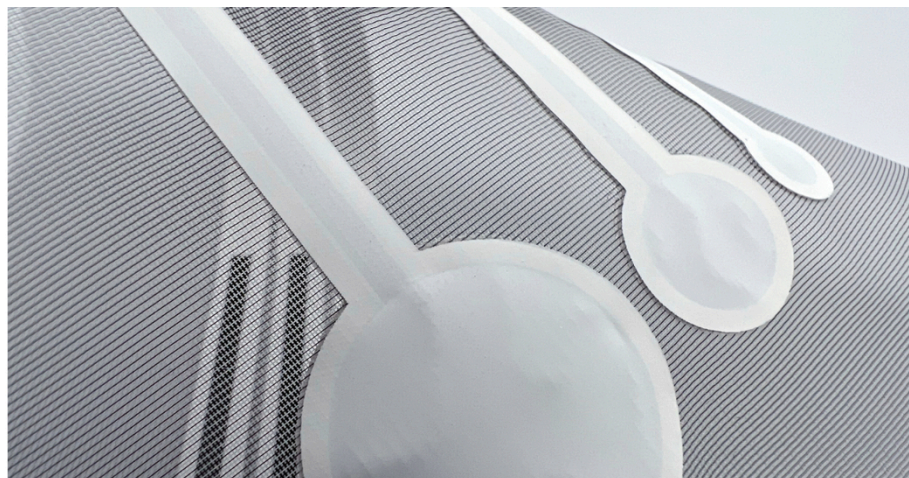
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Example showing SEFAR PresSense Force Sensitive Resistor Fabric with heat printed electrodes.

Suitable from low to high pressure applications

Choose from three fabric products covering a broad pressure range from touch sensitivity to heavy load. SEFAR PresSense is woven in-house up to a width of 3 meters and unlimited length, can be cut into any shape and folded to your specifications.

Broad pressure range	  
SEFAR® PresSense 03-82/37 Black LPA	←→
SEFAR® PresSense 03-120/42 Black MPA	←→
SEFAR® PresSense 03-145/46 Black HPA	←→

Contact us to explore how SEFAR PresSense can elevate your pressure sensing application. Our experts are ready to work with you to create a customized solution - from prototype to final product.

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