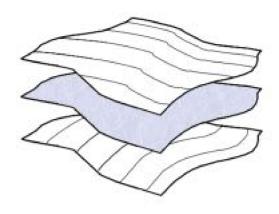
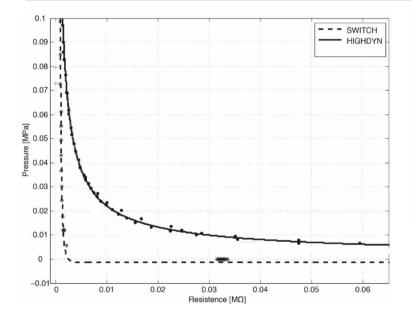
MATRIX TEXTILE PRESSURE SENSOR

Soft sensor able to generate pressure map data even if placed on uneven surfaces. Its all-fabric layers guarantee flexibility, breathability, conformability and stretchability. Can be placed in direct contact with skin. High density of pressure points with a typical resolution 20 mm. Real time response. The all-fabric layers allow bending the sensor without the crackling noise typical of plastic film sensors. Perfectly suited to monitor pressure points between the human body and a soft surface like a seat, mattress or cushion. EU patent.



Technical characteristics

	unit	value	equivalents
Working principle		piezoresistive	
Spatial resolution*	mm	20	0.79 in
Spacing between rows/cols*	mm	10	0.39 in
Maximum detectable pressure	kPa	130	18.85 psi
Minimum detectable pressure	kPa	0.1	0.15 psi
Maximum resistance	МΩ	> 0.4	
Minimum resistance	ΜΩ	0.8 x 10 ⁻³	
Washable surface		optional	
Maximum sensor size W x L	cm	130 x 250	51.2 x 98.4 in
Standard sensor size*	cm	32 x 32	12.6 x 12.6 in
* other sizes or spacings available on	request		





Our evaluation kits include one 12x12 or 16x16 sensor, one Arduino Mega and one shield for easy connection to the Arduino. A basic pressure map can be visualized using a Processing sketch provided free of charge.



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