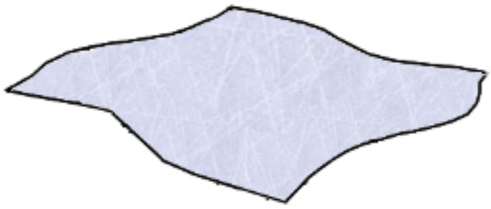
TEMPERATURE TEXTILE SENSOR

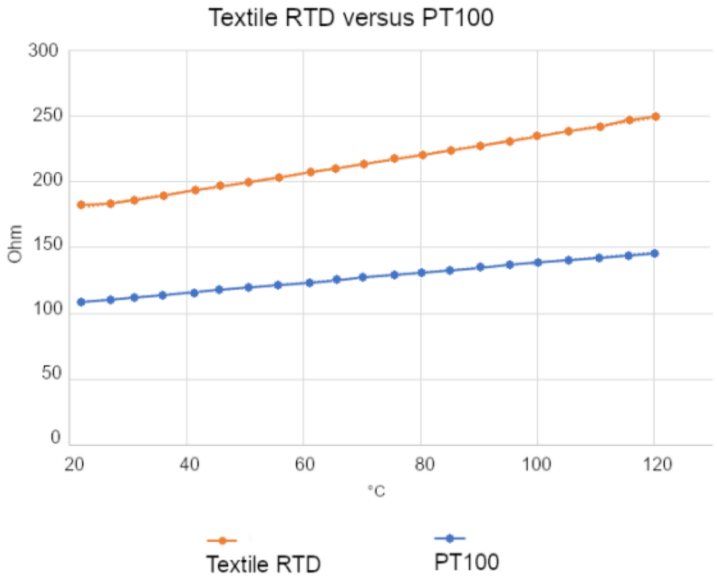
Soft sensor able to measure temperature even if placed on uneven surfaces. Its all-fabric single layer guarantees flexibility, breathability, conformability and stretchability. It can be placed in direct contact with skin. RTD principle, temperature is averaged on the whole surface of the sensor. Very low thermal inertia and non-significant hysteresis. High sensitivity. It is the perfect instrument to measure temperature of the human body or as a wrap-on sensor to measure temperature of a tube without the need to install thermowells. Measurement is not affected by humidity. International Patents Pending

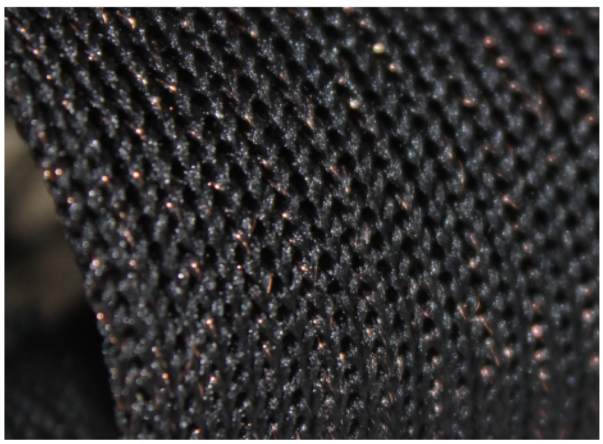


Single layer

Technical characteristics

Working principle	RTD	Humidity effects	non-significant
Maximum working temperature	150 °C [302 °F]	Standard dimensions	4.5x4 cm [1.77x1.57 in]
Minimum working temperature	- 50 °C [- 58 °F]	Max Dimensions	90x90 cm [36x36 in]
Resistance @25°C	182.22 Ω	Elasticity (warp)	15%
Calibration curve	R(T)=164.66+0.7023T Ω	Elasticity (weft)	15%
Sensitivity	0.7023 Ω/°C	Weight	6 g [0.212 oz]
Precision	PT%=±(1.14 - 0.005T)%	Washability	Optional
Hysteresis	non-significant	Part number	TRAPOLTS04004501





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industrial flexible sensors

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