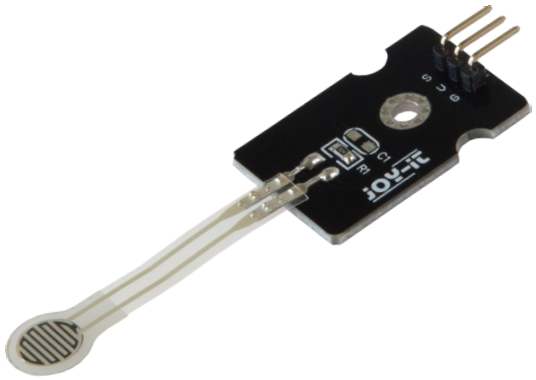
PRESSURE SENSOR UP TO 10 KG

Thin-film pressure sensor for 0-10 kilograms

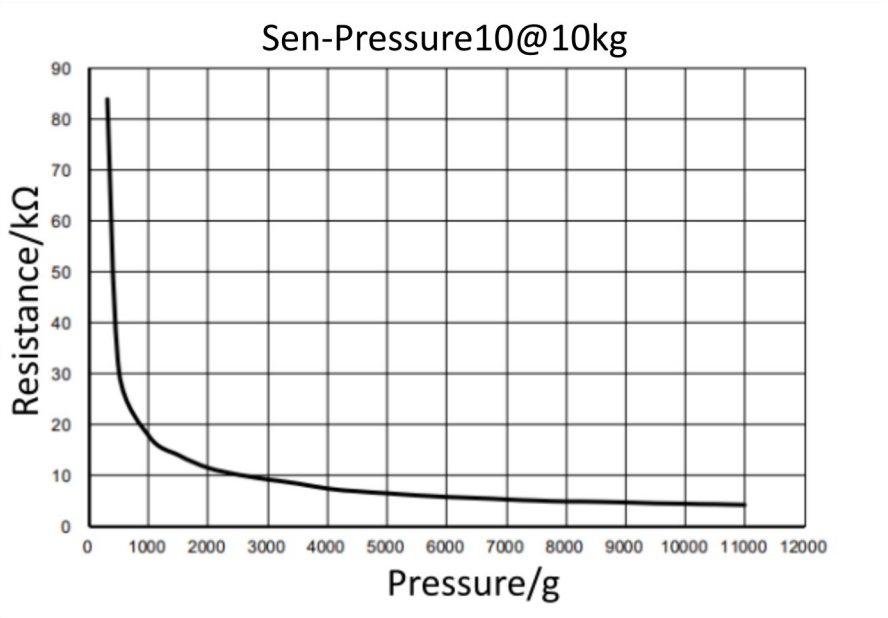


This pressure sensor works by means of analog resistance detection, when external pressure is applied to the sensor, the resistance and thus the voltage of the analog signal changes. The sensor is highly sensitive, and the sensor strip is waterproof and flexible.

MAIN FEATURES	
Measurement range	0 - 10 kilograms
Thickness of thin-film strip	< 0.25 mm
Application areas	robotic, microcontroller projects
Compatible with	Raspberry Pi, Arduino, etc.
Special features	High sensitivity and flexibility, water-proof sensor strip, no electrostatic discharge or magnetic interference
Dimensions	75 x 20 x 9 mm Contact area size: 7.5 mm
Items delivered	SEN-Pressure10

FURTHER SPECIFICATIONS	
Output	Analog voltage value
Response point of weight	200 g - 250 g
Accuracy	± 2,5%
Response time	< 1 ms
Recovery time	< 15 ms
Pins: + I S	 Power supply 3.3 - 5V Ground Analog Output
Durability	Approx. 1'000'000 measurements
Operation temperature	-20 to 60 ° C

FURTHER DETAILS	
Article No.	SEN-Pressure10
EAN	4250236820019
Customs Tariff No.	847330200



The diagram shows the pressure-resistance relationship for the entire resistance range.

The following formula is used to calculate the voltage from the measured values:

$$VOUT = \frac{VCC}{RC + 510} \cdot 510$$

The above formula is composed of the **supply voltage (VCC)**, the known **resistor value from the above diagram (RC)**, and the known **resistor value on the sensor PCB (510 kΩ)**.

Actual data should be tested after installation. All data without guarantee!

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