

EC100 Sensor Kit

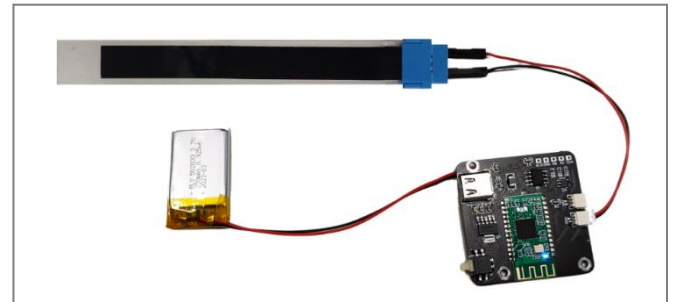


Stretch Sensor

Sensor kit will assist you to quickly understand the sensor technology and evaluate suitability for your design.

What' included

1. 2 piece: EC100-N-421-A01
2. 1 piece: PCB
3. 1 piece: Battery (3.7V, 250mAh)
4. Blue tooth 5.0



Sensor kit request

System Requirements:

- iOS 14.5 or later, compatible with iPhone and iPad.

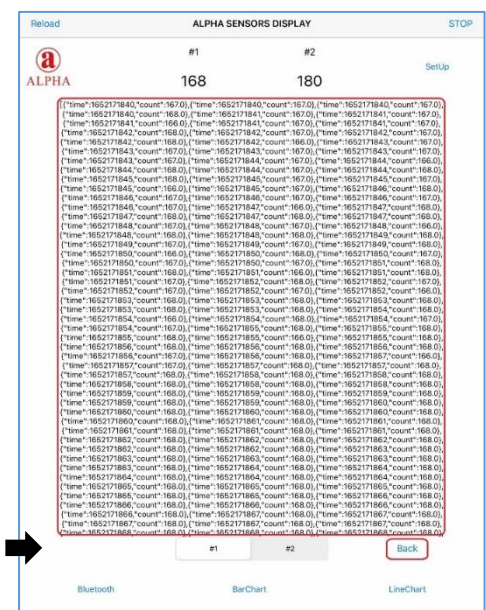
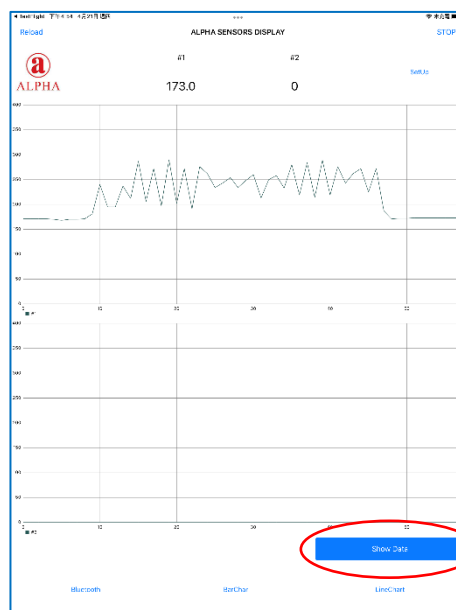
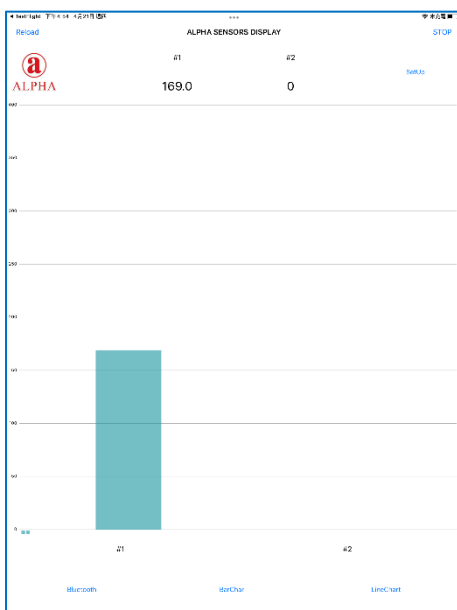
Stretch Sensor kit :

Stretch sensors are known for their flexibility and elasticity, allowing them to measure different shapes and sizes that traditional sensors cannot easily accommodate. Stretch sensors are ideal for applications such as wearable devices, motion tracking, joint rehabilitation, and more.

In order to ensure usability for a wider audience, Taiwan Alpha has developed a user-friendly sensor kit accompanied by software for simple reading and recording.

The sensor kit includes two modes, a bar chart, and a line chart.

- Bar chart: Display real-time changes in capacitance.
- Line Chart: Display real-time capacitance changes over a specific time period. In addition, you can view the raw data by clicking "show data", which can be used in software design and further analysis.



EC100 Sensor Kit



Stretch Sensor

Application

- ✓ Wearable devices, motion-monitoring systems.

Feature

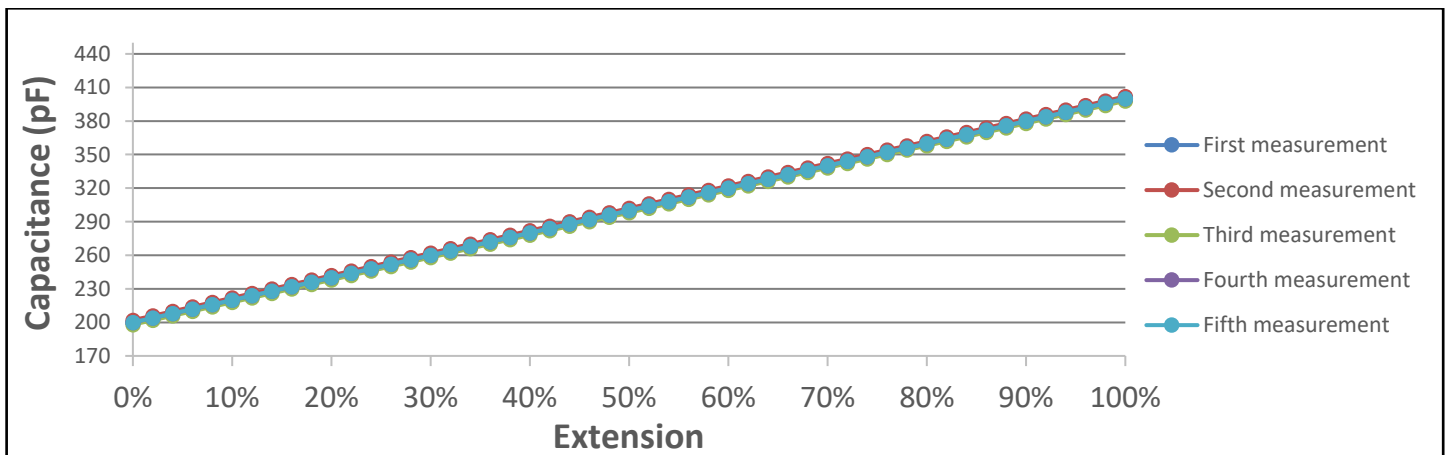
- ✓ Flexible, stretchable and long life, provides real-time when it is extended or stretched around 3D objects.

Order Code	Outline Drawing
EC100-N-421-A01	

SPECIFICATION

MODEL	EC100-N-421-A01
STRETCHABLE RANGE	0 ~ 100%
ACTIVE SENSING ZONE	96mm * 10mm
CAPACITANCE (UN-STRETCHED)	160pf ~ 240pf
OPERATION TEMPERATURE	10°C ~ 50°C
LIFE CYCLE (STRETCH PERCENTAGE 50%)	500,000 cycles

EXTENSION-CAPACITANCE MEASUREMENT



Extension (%) = Extended Sensor length / Original Sensor length*100%

Repeatability: $\leq \pm 1\%$

Design and specifications presented here are for the standard parts only. Please kindly contact us for your special requests and ask for the current technical specifications before purchase and/or use.