Brand URL

Application

Material Function

Type of sensor Measures up to

Accuracy

Wired Wireless Protocol

Interface

Programmable
Development Software
available
Data available
Industry Grade

Price



Oriori

https://www.orioritech.com/shop/oriori-ball

Fun, toy, but usable for more serious applications when calibrated

Silicon

Force measurement of handstrength

Force/strength 60kg

Reasonbly accurate(5 to 10% off)

No Yes(BLE4) Bluetooth 4

From USB to software

Maybe

No

Possibly

No, but sturdy through material





K-Invent https://www.k-invent.com/k-force- http://www.forsentek.com/prodet grip/ Fitness/ Medical application/hand

stenght apparatus

Silicon Force measurement of handstrength

Force/strength 70-90kg

Accurate and calibrated(less than 3%) No Yes(BLE4) Bluetooth 4

Provided by software

Yes

Yes

Yes

Yes

Forsentek

ail 266.html

Medical-Fitness

application/hanReasearch tool

fitness ad strength capacity

Aluminium casing

Force measurement of

handstrength

Force/strength

5 - 50kilo

Accurate ad calibrated(less than

3% + or - difference)

Yes

No

Serial to USB, analog output, need

A/D converter

Data from the USB port

Yes

No

Yes

Yes



Vernier https://www.vernier.com/products/sensors,

Fitness application/hand stenght apparatus

Soft plastic Force measurement of hand and fingerstrength

Force/strength 0 - 90kilo

Accurate(less than 5% + or - difference)

Yes(USB(No Serial to USB

Provided by software

Yes

Yes

Yes

No, for test use, research & study



Vernier
https://www.vernier.com/products/sens
ors/ekg-sensors/ekg-bta/
Fitness application/hand stenght
apparatus

Plastic Musce tension through electro

Muscle tension(EKG, EMG)
EKG/EMG tables tension measurement

Accurate(less than 5% + or - difference)

Yes(USB)

No

Serial to USB

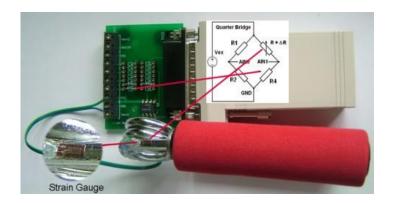
Provided by software

Yes

Yes

Yes

No, for test use, research & study



Self assembly from components, no soldering http://emant.com/80100.page

Fitness application/hand stenght apparatus

Silicon grip
Force measurement of handrstrength

Force/strength 30kg

Accurate(less than 5% + or - difference)

Yes(USB)

No

Serial to USB

Codeexamples available

Yes

Yes

Yes

No

About \$200 total BOM cost



Fitbit Ionic https://dev.fitbit.com/

Fitness and possibly medical applications

Metal, silicon wristband Several sensors, temperatur, heart rate, blood pressure, saturation Several

NA Accurate(less than 5% off)

Yes, USB Yes, Bluetooth 5 Depending on connection

SDK/API ad cloud service available
Yes

Yes

Yes

No, but very durable

About \$200