

Microbit and sensors

Workshop shopping list

This is just a preliminary list. If I have left something off, just send me an e-mail and I will add it to the list.

Thanks,

Bob

15 of these:

<https://www.seeedstudio.com/Grove-Inventor-Kit-for-micro%3Abit-p-2891.html>

https://github.com/SeeedDocument/Bazaar_Attachment/raw/master/110060762/Grove%20inventor%20kit%20for%20microbit%20user%20manual.pdf

Two of these (take out the mercury switches and the laser)

www.ebay.com.au/itm/New-Ultimate-37-in-1-Sensor-Module-Kit-Arduino-PIC-Raspberry-Pi-eParcel-Sydney-/272393134910?

15 of these:

<https://www.aliexpress.com/item/10Pcs-3362P-105-3362-P-1M-ohm-High-Precision-Variable-Resistor-Potentiometer/32224573224.html>

15 of these:

<https://www.aliexpress.com/item/10pcs-250V-5A-3-Pin-Tact-Switch-Sensitive-Microswitch-Micro-Switches-Handle-KW11-3Z-Promotion/32767683421.html?>

15 of these

<https://www.aliexpress.com/item/LCD-Digital-Voltmeter-Red-LED-Voltage-Meter-DC0-40V-0-36-inch-three-Wires-Mini-Volt/32724664202.html?>

10 packs of these (cut them in half and make adapters for the 37 sensor bits)

[https://www.seeedstudio.com/Grove-Universal-4-Pin-20cm-Unbuckled-Cable-\(5-PCs-Pack\)-p-749.html](https://www.seeedstudio.com/Grove-Universal-4-Pin-20cm-Unbuckled-Cable-(5-PCs-Pack)-p-749.html)

15 of these

<https://www.aliexpress.com/item/Mini-Universal-Solderless-Breadboard-400-Contacts-Tie-points-Available-AL/32767835502.html?>

Some of these

<https://www.aliexpress.com/item/120pcs-Dupont-Wire-Male-to-Male-Male-to-Female-Female-to-Female-Jumper-Cable/32597266795.html?>

10 lots of this (to solder on the seed studio wires to make adapters for the 37 Arduino sensors)

<https://www.aliexpress.com/snapshot/0.html?spm=a2g0s.9042647.6.2.u4UOuj&orderId=86075499716456&productId=1745024594>

some of these (for controlling pumps and motors)

<https://www.aliexpress.com/item/10pcs-KY-019-5V-One-1-Channel-Relay-Module-Board->

[Shield-For-PIC-AVR-DSP-ARM/32723348227.html?](https://www.aliexpress.com/item/2pcs-DC-3v-6v-Mini-Micro-Submersible-Water-Pump-Low-Noise-Motor-pump-120L-H-1/32714683390.html?)

some of these

<https://www.aliexpress.com/item/2pcs-DC-3v-6v-Mini-Micro-Submersible-Water-Pump-Low-Noise-Motor-pump-120L-H-1/32714683390.html?>

Some of these

<https://www.aliexpress.com/item/Free-shipping-10set-soil-the-hygrometer-detection-module-robot-intelligent-car-soil-moisture-sensor-for-arduino/32475325540.html?>

Some of these

<https://www.aliexpress.com/item/HC-sr04-Ultrasonic-sensors-measuring-the-distance-Modules-for-the-PICAXE-microcontroller-Arduino-UNO/32384559794.html?>

Some of these

<https://www.aliexpress.com/item/80061-ISD1820-recording-module-voice-module-the-voice-board-telediphone-module-board-with-Microphones-Loudspeaker-for/32517579997.html?>

Some of these (make sure your get 3 volt, as most are 12 volt)

<https://www.aliexpress.com/item/10pcs-3V-Active-Buzzer-Alarm-Sounder-Speaker-Electromagnetic-SOT/1927879133.html?>

Some of these

<https://www.aliexpress.com/item/Freeshipping-Hui-Sheng9-grams-of-servo-motor-SG90-TOWERPRO-9grams-steering-gear-25CM/1393036152.html?>

or these:

<https://www.aliexpress.com/item/Free-shipping-PT-Pan-Tilt-for-Aircraft-1pcs-FPV-dedicated-nylon-PTZ-2pcs-9G-servos-SG90/32214054094.html?>

Maybe a few motors (to contrast with the servos)(They need relays, so you don't draw too much current from the Micro:bit)

<https://www.aliexpress.com/item/1-Pc-1V-6V-DC-Hobby-Motor-Mini-Motor-Toy-Motor-DC-Motor-Type-130-For/32788246288.html?>