



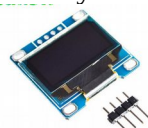
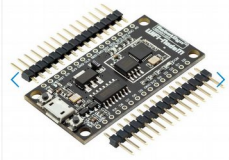
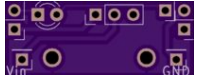

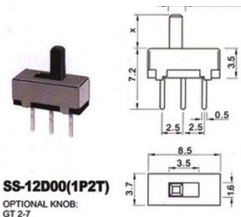

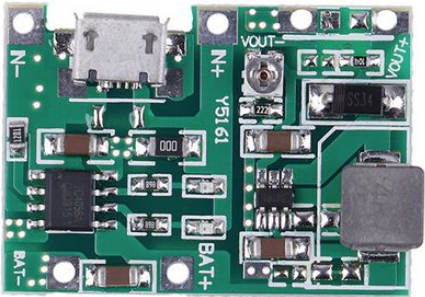
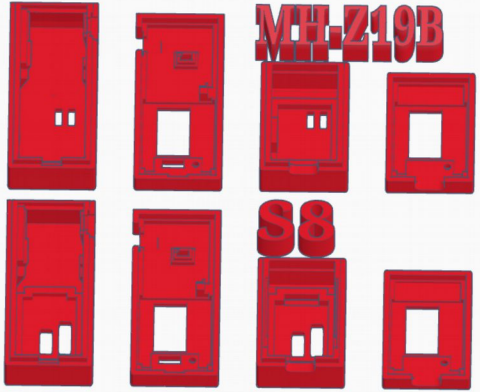


Shopping list for Covid-CO2 sensor (<https://www.github.com/arnold-n/Covid-CO2>)

| Item | Example link |
|--|--|
| Soldering skills | https://www.youtube.com/watch?v=Qps9woUGkvI |
| Tools, some small wires, pin headers  | Generic, and/or https://www.tinytronics.nl/shop/nl/kabels/prototype-draden/breadboard-draden-140-stuks-verschillende-maten-in-dooisje and https://www.tinytronics.nl/shop/nl/connectoren/pin-header/40-pins-header-male |
| CO2 sensor: -option 1: Winsen MH-Z19B, 0-2000ppm, but without pre-soldered pins  -option 2: SenseAir S8 LP 004-0-0053, but without pre-soldered pins  -option 3: Sensirion SCD30  | https://www.tinytronics.nl/shop/nl/sensoren/winsen-mh-z19b-co2-sensor-met-kabel or https://nl.aliexpress.com/item/32823821163.html (select 2000ppm version) or https://www.digikey.nl/product-detail/en/senseair-north-america-inc/004-0-0053/2194-004-0-0053-ND/10416532 or https://www.antratek.nl/co2-and-rh-t-sensor-scd30 or https://nl.mouser.com/ProductDetail/Sensirion/SCD30 |
| SSD1306 0.96" white OLED I2C (and not the very similar SSD1316)  | https://nl.aliexpress.com/item/32804323027.html (used for development) or https://www.tinytronics.nl/shop/nl/display/oled/0.96-inch-oled-display-128*64-pixels-wit-i2c (looks similar but I2C address mentioned is 0x78?, not sure whether it works) |
| NodeMCU ESP8266 board (select a reliable seller)  | https://robotdyn.com/wifi-nodem-esp8266-32m-flash-ch340g.html or https://www.tinytronics.nl/shop/nl/communicatie/wi-fi/robotdyn-esp8266-nodemcu |
| LED/switch PCB  | oshpark or any other PCB supplier. In NL, please ask me to avoid shipping costs for these trivial small PCBs. |
| THT resistors 1k Ohm, 12kOhm, 120kOhm | generic |
| THT 3mm LED (wires should remain thin near LED)  | generic |
| Switch 1P2T 3.7x8.5mm | https://nl.aliexpress.com/item/1005001659014942.html |

| | |
|--|--|
|  <p>SS-12D00(1P2T) OPTIONAL KNOB: GT 2-7</p> | (select 3mm) |
| <p>Li-ion battery 25x30x8mm</p>  | https://nl.aliexpress.com/item/32917329258.html |
| <p>Board with TC4056 charge circuit and MT3608 DC-DC up-converter (note: this board needs a modification because unmodified output is 5.6V or more)</p>  | https://nl.aliexpress.com/item/4000711798833.html |
| <p>Software: firmware image with script included</p> | <p>Firmware images in https://github.com/Arnold-n/covid-CO2</p> <p>Corresponding source code and configuration files: https://github.com/Arnold-n/Tasmota/tree/CO2</p> |
| <p>Micro-USB cable with power bank and/or power supply</p> | <p>generic</p> |
| <p>3D-printed case (one bottom, one top)</p>  | <p>STL files at http://www.github.com/arnold-n/Covid-CO2 and ordering from https://formalize-am.com/en/3d-printing-service/ or https://create3dshop.nl/3dprint/3d-online-prints-service/</p> |