

CovidTempSensor.com Bill of Materials

Temperature Monitor Rev. 1.0 September 3, 2020

| Description | Quantity | Part Number | Mouser PN | Vendor | Manufacturer | Notes | Link |
|---------------------------------|-------------------------------------|--|----------------------|----------------------|------------------------|--|---|
| 3D Printed Outer Enclosure | 1 | EnclosureRev1_0.stl | | 3D printed | DYI | The outer enclosure is the same for both the wall mount or desktop version. | |
| 3D Printed Left Bracket | 1 | LeftBracketWallRev1_0.stl or LeftBracketDeskRev1_0 | | 3D printed | DYI | Can choose to use either the wall mount or desktop version. | |
| 3D Printed Right Bracket | 1 | RightBracketWallRev1_0.stl or RightBracketDeskRev1_0 | | 3D printed | DYI | Can choose to use either the wall mount or desktop version. | |
| 3D Printed Back Plate | 1 | BackPlateRev1_0.stl | | 3D printed | DYI | The back plate is the same for both the wall mount or desktop version. | |
| 3D Printed Translucent LED Lens | 1 | LEDLensRev1_0.stl | | 3D printed | DYI | Clear PETG 3D printer filament. Two layer with 0% infill. | https://www.amazon.com/gp/product/B07SB761QR/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&psc=1 |
| Clear LCD Lens | 1 | Clear acrylic panel - .08 inch thick. WindowLCD.DXF | | Amazon | | Cut to size: 149 mm X 69 mm | https://www.amazon.com/dp/B0892KB23T/?coliid=I38NLKWLMMFK64M&colid=31W3PG5TRGNTV&psc=1&ref=lv_ov_lig_dp_it |
| Cyanoacrylate Glue (Super Glue) | 1 | 8333-3G | 590-8333-3G | Mouser | MG Chemical or Similar | Use a quality super glue. Used to glue in the LED lens (not the LCD window). Important: Allow to dry at least 24 hrs before assembling the unit to let out gas to prevent a white haze on the LCD window. | https://www.mouser.com/ProductDetail/MG-Chemicals/8333-3G?qs=sbrGYOVz3Hdx0JisvFhMw%3D%3D |
| Non-corrosive RTV Silicon | 1 | 1035-85ML | 590-1035-85ML | Mouser | MG Chemical or Similar | RTV Silicone, Translucent, Paste, Non-Corrosive. Use this to glue in the sensor. | https://www.mouser.com/ProductDetail/590-1035-85ML |
| Double Sided Tape | 1 | 76665A81 | | McMaster | 3M | | https://www.mcmaster.com/76665A81/ |
| USB Extension Cable | 1 | 3318 | 485-3318 | Mouser | Adafruit | Panel mount USB miniB extension | https://www.mouser.com/ProductDetail/Adafruit/3318?qs=%2Fha2pyFaduuhjrFtRcQLuDC2C0juWTqm3j5PVmKoOMBQQcD1vckyF1A%3D%3D |
| Jumper Cables 30cm (11.8 inch) | 9 | | | Amazon | Edgelec | Can use a variety of manufacturers. | https://www.amazon.com/gp/product/B07GD1W1VL/ref=ppx_yo_dt_b_asin_title_o03_s00?ie=UTF8&psc=1 |
| Heat Shrink 3/31 ID | 4 (order only one length of tubing) | FIT2213/32 BK103 | 602-221332-4BK | Mouser | Alpha Wire | Heat shrink tubing. Comes in a 4 ft. length. User cuts 4 pieces to size, approx. 1 inch in length. | https://www.mouser.com/ProductDetail/Alpha-Wire/FIT2213-32-BK103?qs=nnyd4Y67WISvEjawy8pxLw%3D%3D |
| Pin Header 6 pin Right Angle | 1 | M20-9750642 | 855-M20-9750642 | Mouser | Harwin | Six SIL Horizontal pin header tin. Use for the LEDBuzzer board. | https://www.mouser.com/ProductDetail/Harwin/M20-9750642?qs=WS5Jv%252B%252Bx1qV0gh6kO4SeA%3D%3D |
| Pin Header 16 pin Right Angle | 1 | M20-9751646 | 855-M20-9751646 | Mouser | Harwin | 16 SIL Horizontal pin header tin. | https://www.mouser.com/ProductDetail/Harwin/M20-9751646?qs=WS5Jv%252B%252Bx1qWb9zMQORwc6Q%3D%3D |
| 4-40 Screws 3/16" long | 5 | 91772A105 | | McMaster | | Use for the LEDBuzzer board and the development board. | https://www.mcmaster.com/91772A105/ |
| 4-40 Brass Inserts | 9 | 93365A120 | | McMaster | | Use 4 for the enclosure ends and 5 for the carrier board. | https://www.mcmaster.com/93365A120/ |
| 4-40 Cap Screw 3/4" Long | 4 | 92196A113 | | McMaster | | Use for the end caps. | https://www.mcmaster.com/92196A113/ |
| Instruction Label | 1 | | | Clear Label | | Clear instruction label. | www.sheetLabels.com |
| Bullseye Target | 1 | File: BullsEye2.pdf | | Vinyl Cut Label | | Custom vinyl lettering. Can't use a label because it needs a center hole. | www.DYILettering.com |
| LED / Buzzer PCB | 1 | LEDBuzzRev1_0.zip | | JLPCB | | PCB Gerber files for the LED and buzzer board. | www.jlpcb.com |
| Silicon Labs Dev. Board | 1 | SLSTK3301A | | Symmetry Electronics | Silicon Labs | Development Board | https://www.semiconductorstore.com/cart/pc/viewPrd.asp?idproduct=98151 |
| Temperature Sensor | 1 | TSD305-1C55 | | TTI, Inc. | TE Connectivity | Temperature Sensor | https://www.tti.com/content/ttiinc/en/apps/part-detail.html?mfrShortname=TEG&partsNumber=TSD305-1C55 |
| RGB LED | 1 | CLX6F-FKC-CKNNQDGBB7A363 | 941-CLX6FFKCCKNNQDGB | Mouser | Cree | LED | https://www.mouser.com/ProductDetail/Cree-Inc/CLX6F-FKC-CKNNQDGBB7A363?qs=%2Fha2pyFaduhvb%252B%252Bx1qV0gh6kO4SeA%3D%3D |
| Buzzer | 1 | PS1240P02CT3 | 810-PS1240P02CT3 | Mouser | TDK | Buzzer | https://www.mouser.com/ProductDetail/TDK/PS1240P02CT3?qs=%2Fha2pyFadug6C9WIOoUSCgkLwAgjNB16SNVdhG6hcTuEndXNRo44sA%3D%3D |
| 33 Ohm 0603 Resistor | 1 | RC0603FR-0733RL | 603-RC0603FR-0733RL | Mouser | Yageo | 33 Ohm resistor | https://www.mouser.com/ProductDetail/Yageo/RC0603FR-0733RL?qs=%2Fha2pyFaduhXXNW8qwnUNuY5gBExJvyDIT2P2OoiGDPKF7EGsU3TLQ%3D%3D |
| 82 Ohm 0603 Resistor | 2 | RC0603FR-0782RL | 603-RC0603FR-0782RL | Mouser | Yageo | 82 Ohm resistor | https://www.mouser.com/ProductDetail/Yageo/RC0603FR-0782RL?qs=%2Fha2pyFaduhXXNW8qwnUNICAHLSunW5qQ0ofkVSoNgseZSFVA3XUA%3D%3D |