

# 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.	<a href="https://www.amazon.com/gp/product/B07SB761QR/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&amp;psc=1">https://www.amazon.com/gp/product/B07SB761QR/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&amp;psc=1</a>
Clear LCD Lens	1	Clear acrylic panel - .08 inch thick. WindowLCD.DXF		Amazon		Cut to size: 149 mm X 69 mm	<a href="https://www.amazon.com/dp/B0892KB23T/?coliid=I38NLKWLMMFK64M&amp;colid=31W3PG5TRGNTV&amp;psc=1&amp;ref=lv_ov_lig_dp_it">https://www.amazon.com/dp/B0892KB23T/?coliid=I38NLKWLMMFK64M&amp;colid=31W3PG5TRGNTV&amp;psc=1&amp;ref=lv_ov_lig_dp_it</a>
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). <b>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.</b>	<a href="https://www.mouser.com/ProductDetail/MG-Chemicals/8333-3G?qs=sbrGYOVz3Hdx0JiswFhMw%3D%3D">https://www.mouser.com/ProductDetail/MG-Chemicals/8333-3G?qs=sbrGYOVz3Hdx0JiswFhMw%3D%3D</a>
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.	<a href="https://www.mouser.com/ProductDetail/590-1035-85ML">https://www.mouser.com/ProductDetail/590-1035-85ML</a>
Double Sided Tape	1	76665A81		McMaster	3M		<a href="https://www.mcmaster.com/76665A81/">https://www.mcmaster.com/76665A81/</a>
USB Extension Cable	1	3318	485-3318	Mouser	Adafruit	Panel mount USB miniB extension	<a href="https://www.mouser.com/ProductDetail/Adafruit/3318?qs=%2Fha2pyFaduuhjrFtRCqLUdCZC0juWTqm3j5PVmKoOMBQQcD1vckyF1A%3D%3D">https://www.mouser.com/ProductDetail/Adafruit/3318?qs=%2Fha2pyFaduuhjrFtRCqLUdCZC0juWTqm3j5PVmKoOMBQQcD1vckyF1A%3D%3D</a>
Jumper Cables 30cm (11.8 inch)	9			Amazon	Edgelec	Can use a variety of manufacturers.	<a href="https://www.amazon.com/gp/product/B07GD1W1VL/ref=ppx_yo_dt_b_asin_title_o03_s00?ie=UTF8&amp;psc=1">https://www.amazon.com/gp/product/B07GD1W1VL/ref=ppx_yo_dt_b_asin_title_o03_s00?ie=UTF8&amp;psc=1</a>
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.	<a href="https://www.mouser.com/ProductDetail/Alpha-Wire/FIT2213-32-BK103?qs=nnyd4Y67WISvEjawy8pxLw%3D%3D">https://www.mouser.com/ProductDetail/Alpha-Wire/FIT2213-32-BK103?qs=nnyd4Y67WISvEjawy8pxLw%3D%3D</a>
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.	<a href="https://www.mouser.com/ProductDetail/Harwin/M20-9750642?qs=WS5Jv%252B%252Bx1qV0gh6kO4SeA%3D%3D">https://www.mouser.com/ProductDetail/Harwin/M20-9750642?qs=WS5Jv%252B%252Bx1qV0gh6kO4SeA%3D%3D</a>
Pin Header 16 pin Right Angle	1	M20-9751646	855-M20-9751646	Mouser	Harwin	16 SIL Horizontal pin header tin.	<a href="https://www.mouser.com/ProductDetail/Harwin/M20-9751646?qs=WS5Jv%252B%252Bx1qWb9zMQORwc6Q%3D%3D">https://www.mouser.com/ProductDetail/Harwin/M20-9751646?qs=WS5Jv%252B%252Bx1qWb9zMQORwc6Q%3D%3D</a>
4-40 Screws 3/16" long	5	91772A105		McMaster		Use for the LEDBuzzer board and the development board.	<a href="https://www.mcmaster.com/91772A105/">https://www.mcmaster.com/91772A105/</a>
4-40 Brass Inserts	9	93365A120		McMaster		Use 4 for the enclosure ends and 5 for the carrier board.	<a href="https://www.mcmaster.com/93365A120/">https://www.mcmaster.com/93365A120/</a>
4-40 Cap Screw 3/4" Long	4	92196A113		McMaster		Use for the end caps.	<a href="https://www.mcmaster.com/92196A113/">https://www.mcmaster.com/92196A113/</a>
Instruction Label	1			Clear Label		Clear instruction label.	<a href="http://www.sheetLabels.com">www.sheetLabels.com</a>
Bullseye Target	1	File: BullsEye2.pdf		Vinyl Cut Label		Custom vinyl lettering. Can't use a label because it needs a center hole.	<a href="http://www.DYILettering.com">www.DYILettering.com</a>
LED / Buzzer PCB	1	LEDBuzzRev1_0.zip		JLPCB		PCB Gerber files for the LED and buzzer board.	<a href="http://www.jlpcb.com">www.jlpcb.com</a>
Silicon Labs Dev. Board	1	SLSTK3301A		Symmetry Electronics	Silicon Labs	Development Board	<a href="https://www.symmetryelectronics.com/products/silicon-labs/slstk3301a/">https://www.symmetryelectronics.com/products/silicon-labs/slstk3301a/</a>
Temperature Sensor	1	TSD305-1C55		TTI, Inc.	TE Connectivity	Temperature Sensor	<a href="https://www.tti.com/content/ttiinc/en/apps/part-detail.html?mfrShortname=TEG&amp;partsNumber=TSD305-1C55">https://www.tti.com/content/ttiinc/en/apps/part-detail.html?mfrShortname=TEG&amp;partsNumber=TSD305-1C55</a>
RGB LED	1	CLX6F-FKC-CKNNQDGBB7A363	941-CLX6FFKCCKNNQDGB	Mouser	Cree	LED	<a href="https://www.mouser.com/ProductDetail/Cree-Inc/CLX6F-FKC-CKNNQDGBB7A363?qs=%2Fha2pyFaduuhvb%252B%252Bx1qV0gh6kO4SeA%3D%3D">https://www.mouser.com/ProductDetail/Cree-Inc/CLX6F-FKC-CKNNQDGBB7A363?qs=%2Fha2pyFaduuhvb%252B%252Bx1qV0gh6kO4SeA%3D%3D</a>
Buzzer	1	PS1240P02CT3	810-PS1240P02CT3	Mouser	TDK	Buzzer	<a href="https://www.mouser.com/ProductDetail/TDK/PS1240P02CT3?qs=%2Fha2pyFadug6C9WIOoUSCgkIwAgjNB16SNVdhG6hcTuEndXNRo44sA%3D%3D">https://www.mouser.com/ProductDetail/TDK/PS1240P02CT3?qs=%2Fha2pyFadug6C9WIOoUSCgkIwAgjNB16SNVdhG6hcTuEndXNRo44sA%3D%3D</a>
33 Ohm 0603 Resistor	1	RC0603FR-0733RL	603-RC0603FR-0733RL	Mouser	Yageo	33 Ohm resistor	<a href="https://www.mouser.com/ProductDetail/Yageo/RC0603FR-0733RL?qs=%2Fha2pyFaduXXNW8qwNUNuY5gBExJyDIT2P2OoiGDPKF7EGsU3TLQ%3D%3D">https://www.mouser.com/ProductDetail/Yageo/RC0603FR-0733RL?qs=%2Fha2pyFaduXXNW8qwNUNuY5gBExJyDIT2P2OoiGDPKF7EGsU3TLQ%3D%3D</a>
82 Ohm 0603 Resistor	2	RC0603FR-0782RL	603-RC0603FR-0782RL	Mouser	Yageo	82 Ohm resistor	<a href="https://www.mouser.com/ProductDetail/Yageo/RC0603FR-0782RL?qs=%2Fha2pyFaduXXNW8qwNUNICAHLSunW5qQ0ofkVSoNgseZSFVA3XUA%3D%3D">https://www.mouser.com/ProductDetail/Yageo/RC0603FR-0782RL?qs=%2Fha2pyFaduXXNW8qwNUNICAHLSunW5qQ0ofkVSoNgseZSFVA3XUA%3D%3D</a>