

Cost Estimation:

Item	Quantity	Cost(\$)	Total(\$)
ATmega328P U	1	5.8	5.8
Button	3	0.112	0.336
CT-94	1	2.14	2.14
10uF capacitor	1	0.39	0.39
LM-35	1	3.83	3.83
470ohms resistor	1	0.14	0.14
LED	1	0.83	0.83
WC1602A	1	18.76	18.76
Wires	41	0.0916	3.75
Total			35.97

ATmega328P U:

[https://www.amazon.ca/10pcs-ATMEGA328P-PU-ATMEGA328-PU-ATMEGA328-DIP-28/dp/B08HYJJ6DC/ref=sr\\_1\\_3?crd=2FTMVX88YMEH&keywords=atmega328p-put&qid=1638398745&sprefix=ATmega%2Caps%2C215&sr=8-3](https://www.amazon.ca/10pcs-ATMEGA328P-PU-ATMEGA328-PU-ATMEGA328-DIP-28/dp/B08HYJJ6DC/ref=sr_1_3?crd=2FTMVX88YMEH&keywords=atmega328p-put&qid=1638398745&sprefix=ATmega%2Caps%2C215&sr=8-3)

Button:

[https://www.amazon.ca/Momentary-Tactile-Precision-Mechanism-Printing/dp/B08F59V6VG/ref=sr\\_1\\_8?keywords=button+switch&qid=1637211595&sr=8-8](https://www.amazon.ca/Momentary-Tactile-Precision-Mechanism-Printing/dp/B08F59V6VG/ref=sr_1_8?keywords=button+switch&qid=1637211595&sr=8-8)

Wires:

[https://www.amazon.ca/RGBZONE-Multicolored-Breadboard-Arduino-Raspberry/dp/B08TWSV2DY/ref=sr\\_1\\_1\\_sspa?keywords=wire+breadboard&qid=1638398994&sr=8-1-spons&psc=1&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUExSDNOT0NLRfZnQUJFJmVuY3J5cHRlZGlkeWV1dONDQ2WIVORzc2JmVuY3J5cHRlZEFkSWQ9QTA3MjI3ODMzMzQlVFsjBDT0RKOFRMJndpZGdlE5hbWU9c3BfYXRmJmFjdGlvb11jbGlja1JlZGlyZWNOJmRvTm90TG9nQ2xpY2s9dHJ1ZQ==](https://www.amazon.ca/RGBZONE-Multicolored-Breadboard-Arduino-Raspberry/dp/B08TWSV2DY/ref=sr_1_1_sspa?keywords=wire+breadboard&qid=1638398994&sr=8-1-spons&psc=1&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUExSDNOT0NLRfZnQUJFJmVuY3J5cHRlZGlkeWV1dONDQ2WIVORzc2JmVuY3J5cHRlZEFkSWQ9QTA3MjI3ODMzMzQlVFsjBDT0RKOFRMJndpZGdlE5hbWU9c3BfYXRmJmFjdGlvb11jbGlja1JlZGlyZWNOJmRvTm90TG9nQ2xpY2s9dHJ1ZQ==)

CT-94:

[https://canada.newark.com/nidec-copal-electronics/ct-94ey205/trimmer-pot-cermet-2m-18turn-th/dp/58AC2481?gclid=Cj0KCQiA15yNBhDTARIsAGnwe0UVrHUGvHfPofbl-2zsmuqWf\\_hJAeQpwS7hkfhOOOrORdf7ibtTGR0saAh94EALw\\_wcB&s\\_kwcid=AL!8472!3!507454857753!!u!1404683850392!&mckv=\\_dc|pcrid|507454857753|plid||kword||match||slid||product|58AC2481|pgrid|122092002160|ptaid|pla-1404683850392|&CMP=KNC-GCA-GEN-Shopping-Smart-Passives](https://canada.newark.com/nidec-copal-electronics/ct-94ey205/trimmer-pot-cermet-2m-18turn-th/dp/58AC2481?gclid=Cj0KCQiA15yNBhDTARIsAGnwe0UVrHUGvHfPofbl-2zsmuqWf_hJAeQpwS7hkfhOOOrORdf7ibtTGR0saAh94EALw_wcB&s_kwcid=AL!8472!3!507454857753!!u!1404683850392!&mckv=_dc|pcrid|507454857753|plid||kword||match||slid||product|58AC2481|pgrid|122092002160|ptaid|pla-1404683850392|&CMP=KNC-GCA-GEN-Shopping-Smart-Passives)

WC1602A:

[https://canada.newark.com/fordata/fc1602I03-fhybw-91le/display-alphanumeric-16x2-yellow/dp/02AC9707?gclid=Cj0KCQiA15yNBhDTARIsAGnwe0Vs8Ee\\_LXQSGpDoVFbuIJzKYULYv0](https://canada.newark.com/fordata/fc1602I03-fhybw-91le/display-alphanumeric-16x2-yellow/dp/02AC9707?gclid=Cj0KCQiA15yNBhDTARIsAGnwe0Vs8Ee_LXQSGpDoVFbuIJzKYULYv0)

[VDIFPmMfivbIBQcrPg7vDzuyMaAj6DEALw\\_wcB&s\\_kwcid=AL!8472!3!507454857756!!!u!1211452357579!&mckv= dc|pcrid|507454857756|plid||keyword||match||slid||product|02AC9707|pgrid|122092002200|ptaid|pla-1211452357579|&CMP=KNC-GCA-GEN-Shopping-Smart-Optoelectronics](https://www.mouser.ca/ProductDetail/Vishay/K104K15X7RF5UH5?qs=sGAEpiMZZMvfWfew95%2FxxFlwCSezsCZY)

10uF capacitor:

<https://www.mouser.ca/ProductDetail/Vishay/K104K15X7RF5UH5?qs=sGAEpiMZZMvfWfew95%2FxxFlwCSezsCZY>

LM-35:

[https://www.robotshop.com/ca/en/lm35-temperature-sensor-5pk.html?gclid=Cj0KCQiA15yNBhDTARIsAGnwe0XHvLw-YiF\\_ADJO7hIY\\_wTka8F8TdtVOgEsxabHn6FtFX7m4zEfHk8aAkjbEALw\\_wcB](https://www.robotshop.com/ca/en/lm35-temperature-sensor-5pk.html?gclid=Cj0KCQiA15yNBhDTARIsAGnwe0XHvLw-YiF_ADJO7hIY_wTka8F8TdtVOgEsxabHn6FtFX7m4zEfHk8aAkjbEALw_wcB)

470ohms resistor:

[https://www.mouser.ca/ProductDetail/YAGEO/CFR-12JB-52-470R?qs=oypCK0zG325JikE%2F1tVI3Q%3D%3D&mgh=1&gclid=Cj0KCQiA15yNBhDTARIsAGnwe0UIBxXzmu4hLBli1wDDBIGSWIB2HcJuDhfKvSvcKxepDyep30ydCtoaAhZoEALw\\_wcB](https://www.mouser.ca/ProductDetail/YAGEO/CFR-12JB-52-470R?qs=oypCK0zG325JikE%2F1tVI3Q%3D%3D&mgh=1&gclid=Cj0KCQiA15yNBhDTARIsAGnwe0UIBxXzmu4hLBli1wDDBIGSWIB2HcJuDhfKvSvcKxepDyep30ydCtoaAhZoEALw_wcB)

LED:

<https://www.digikey.ca/en/products/detail/rohm-semiconductor/SLR-56VR3F/636992>