

Product cost:

Here is the cost estimate for the prototype.

Product name	Quantity	Cost in (CAD) \$ (per unit)
2x16 LCD	1	18.53
Capacitor (10nF)	1	0.33
Buttons (B3F-400)	3	0.65
ATmega328P	1	3.45
LM35DZ/ LFT1 TO-92 Temp sensor	1	1.82
Resistor (470 ohms)	1	0.14
Trimmer/ Potentiometer	1	2.22
Led light (single color)	1	0.42
		Total: 28.86

Links from where the price estimates were obtained from:

Buttons, 2x16 LCD, ATmega328P, Temp sensor– ECE 312 parts replacement pdf, - https://eclass.srv.ualberta.ca/pluginfile.php/7171719/mod_resource/content/3/PartPurchase.pdf

Trimmer/ Potentiometer 10k ohms 1/2W - https://www.digikey.ca/en/products/detail/bourns-inc./3362R-1-103LF/1088425?utm_adgroup=Potentiometers%2C%20Variable%20Resistors&utm_source=google&utm_medium=cpc&utm_campaign=Shopping_Supplier_Bourns_0118_Co-op&utm_term=&productid=1088425&gclid=CjwKCAiA1uKMBhAGEiwAxzvX9_w_1mMKzv4eVjgX9PgDjGfGDv5tJABagSzHHXprivAeX9NRJVLH1xoC5-gQAvD_BwE

Resistor (470 ohms) - https://www.digikey.ca/en/products/detail/stackpole-electronics-inc/CF14JT470R/1830342?utm_adgroup=General&utm_source=google&utm_medium=cpc&utm_campaign=Smart%20Shopping_Product_Zombie%20SKUS&utm_term=&productid=1830342&gclid=CjwKCAiA1uKMBhAGEiwAxzvX9zclShD2QccFF78Xzh9mg0feZmbvXzx9cfLF2UEA2dDQzReyGnr5cxoCvIwQAvD_BwE

LED RED - https://www.digikey.ca/en/products/detail/sunled/XLMDK12D/6615735?utm_adgroup=General&utm_source=google&utm_medium=cpc&utm_campaign=Smart%20Shopping_Product_Zombie%20SKUS&utm_term=&productid=6615735&gclid=CjwKCAiA1uKMBhAGEiwAxzvX9z0sBiSKRyM2QX0xtpMBLn1_EjjWfKSxdYibIdGateuecoh_jXKPDBoCr4kQAvD_BwE

Capacitor – https://www.digikey.ca/en/products/detail/vishay-beyschlag-dralloric-bc-components/K103K15X7RF53L2/2820436?utm_adgroup=Ceramic%20Capacitors&utm_source=

[google&utm_medium=cpc&utm_campaign=Shopping_Product_Capacitors&utm_term=&productid=2820436&gclid=CjwKCAiA1uKMBhAGEiwAxzvX95M7zbriZEufZKFN3j2KEjfqFiyKtZ34Ykd1bz-3GD3yPleO0ElytRoCf-EQAvD_BwE](https://www.google.com/search?utm_medium=cpc&utm_campaign=Shopping_Product_Capacitors&utm_term=&productid=2820436&gclid=CjwKCAiA1uKMBhAGEiwAxzvX95M7zbriZEufZKFN3j2KEjfqFiyKtZ34Ykd1bz-3GD3yPleO0ElytRoCf-EQAvD_BwE)