

**BILL OF MATERIALS**

ITEM	PART (Description)	NO.	PRICE (EACH)	PRICE(TOTAL)
1	330 Ohm Resistor	28	\$0.06	\$1.68
2	4.7 kilo-Ohm Resistor	9	\$0.06	\$0.54
3	0.1 micro-Faron Capacitor	3	\$0.07	\$0.21
4	Rotary Encoder	2	\$4.50	\$9.00
5	Slide Potentiometer	2	\$5.50	\$11.00
6	Toggle Switch	2	\$0.95	\$1.90
7	MCP23017 IC (I/O port expander)	3	\$4.99	\$14.97
8	MCP3008 IC (Analog/Digital converter)	1	\$6.50	\$6.50
9	120 pc Jumper Wire Kit	2	\$6.98	\$13.96
10	7 Segment Display	4	\$1.03	\$4.12
11	22 AWG Stranded Wire (5 spools/30 ft. ea.)	1	\$13.98	\$13.98
12	Solderless Breadboard (3 pack)	1	\$9.99	\$9.99
13	Push Button Switches (20 pack)	1	\$8.99	\$8.99
14	Heat Shrink Tubing (1/8")	3	\$2.28	\$6.84
15	1x3-8ft	1	\$3.38	\$3.38
16	1/4" 4x8 ft. board	1	\$31.92	\$31.92
17	1 qt. stain	1	\$7.87	\$7.87
18	Hinge, 3 in., Brass	2	\$2.98	\$5.96
19	Door pull	2	\$3.28	\$6.56
20	Safety Double-Hinge Latch	1	\$3.98	\$3.98
21	Gripper Pads 1" (4 pack)	1	\$2.88	\$2.88
			<b>TOTAL</b>	<b>\$166.23</b>