Aquarium Top-Off Controller v1.3

Bill of Materials

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Item | Specification | Supplier | Price | Quantity |
| Arduino | Uno R3 | Active | 32.50 |  |
| Grove Base Shield | Seeed Studio, v1.3 | Seeed Studio SLD01099P | 8.90 |  |
| Grove Relay | Seeed Studio | Seeed Studio COM22639P | 2.90 |  |
| Grove RTC | Seeed Studio SEN12671P | Active 187122 | 11.80 |  |
| Lithium battery | CR1225 3V Lithium |  |  |  |
| Wall adapter power supply | Shenzhen 2U, 120V~ @ 0.5A in, 9VDC @ 1A out | Seeed Studio POW06183B | 3.90 |  |
| Aluminum project case | Hammond 1455T1601 | Active 137561 | 26.99 |  |
| 2 conductor power cord, 6 ft | Circuit Test 138-126 | Active 170A12 | 2.70 |  |
| Power cord entry grommet |  |  |  |  |
| 4-pin JST cables | Seeed Studio, 30 cm, pkg of 5 | Seeed Studio ACC830550 | 2.90 |  |
| Double 6 term barrier block | Cinch 6-140-P | Active 165037 | 5.99 |  |
| Hook-up wire | 22 ga, 18 ga |  |  |  |
| Terminals |  |  |  |  |
| 2-wire AC chassis receptacle | Mode 31-040-1 | Active 170C51 | 2.19 | 3 |
| Paddle lever round toggle switch, ON – (ON) | Philmore 30-10324 | Active 175202 | 4.29 |  |
| Paddle lever round toggle switch, ON – ON | Philmore 30-10328 | Active 175201 | 4.29 |  |
| Serial LCD display | Sparkfun Serial 16x2 – Red on Black 5V | Sparkfun LCD-09394 | 24.95 |  |
| Piezo buzzer | Circuit Test 850-200, 3 to 28 VDC, 4.2 kHz | Active 171315 | 3.49 |  |
| DC power chassis jack | Mode 31-157-1, 2.1 mm | Active 170834 | 2.39 | 2 |
| Coaxial power plug | Mode 360-121-10, 2.1 mm, pkg of 10 | Active 174289 | 5.80 |  |
| Fuse holder |  |  |  |  |
| Fuse |  |  |  |  |
| Standoffs | Nylon ¾” |  |  |  |
| Screws, nuts | 4-40 x |  |  |  |
| Screws, nuts | 6-32 x |  |  |  |
| Screws, nuts | 6-32 x |  |  |  |
| Shrink tubing |  |  |  |  |