

## Parts required and costs to build a CWIS datalogger.

Part	Quantity (per logger)	Unit cost *	Cost/ logger	Vendor
<a href="#">3.3 V 8 MHz Arduino Pro (ATmega328p Board)</a>	1	\$15.95	\$15.95	Sparkfun
<a href="#">Datalogging Shield</a>	1	\$15.95	\$15.95	Adafruit
<a href="#">LIS3MDL Magnetometer + Breakout Board</a>	1	\$4.95	\$4.95	Pololu
<a href="#">Male ICSP Headers (2x15 block)</a>	1/5	\$3.23	\$0.65	Mouser
<a href="#">Adafruit SOT23 Breakout Pack</a>	1/5	\$4.95	\$0.99	Mouser
<a href="#">Stripboard</a>	1/4	\$5.72	\$1.43	Mouser
<a href="#">Anderson Powerpole Connectors</a>	1/20	\$25.99	\$1.30	Amazon
<a href="#">MCP1703 3.3 V Regulator</a>	1	\$0.55	\$0.55	Mouser
<a href="#">1A GMA Mini Fuse</a>	1	\$0.17	\$0.17	All Electronics
<a href="#">In-Line GMA Fuse Holder</a>	1	\$0.45	\$0.45	All Electronics
<a href="#">Serial Extender Housing Pack</a>	1/5	\$0.79	\$0.16	Pololu
<a href="#">Screws (100 Pack)</a>	2/100	\$8.26	\$0.17	Mouser
<a href="#">Nuts (100 Pack)</a>	2/100	\$5.83	\$0.12	Mouser
<a href="#">Box Kit</a>	1	\$2.10	\$2.10	Mouser
<a href="#">Cable Glands</a>	1	\$1.95	\$1.95	Mouser
<a href="#">Battery Connectors</a>	2	\$0.54	\$1.08	Mouser
<a href="#">10 kOhm Resistor</a>	1	\$0.50	\$0.50	Mouser
<a href="#">1 uF Ceramic Capacitors</a>	2	\$0.46	\$0.92	Mouser
<a href="#">0.01 uF Ceramic Capacitor</a>	1	\$0.25	\$0.25	Mouser
<a href="#">Button</a>	1	\$0.16	\$0.16	Mouser
<a href="#">Spacers</a>	2	\$0.10	\$0.20	Mouser
<a href="#">2-Position Terminal Block</a>	1	\$0.90	\$0.90	USU ECE Store
<a href="#">5-Position Terminal Block</a>	1	\$4.11	\$4.11	Mouser
<a href="#">Wire (Battery – Positive)</a>	1/20	\$2.95	\$0.15	Mouser
<a href="#">Wire (Battery – Negative)</a>	1/20	\$2.95	\$0.15	Mouser
<a href="#">Wire (prototype board soldering)</a>	1/20	\$15.95	\$0.80	Mouser
<a href="#">Coin Cell (614-CR1220.IB)</a>	1	\$1.14	\$1.14	Mouser
<a href="#">Micro SD Cards with adapters</a>	1	\$9.95	\$9.95	Mouser
<a href="#">Pelican 1150 Case (with foam)</a>	1	\$31.96	\$31.96	Amazon
<a href="#">Battery</a>	1	\$39.99	\$39.99	Batteries + Bulbs
<a href="#">Clasp</a>	1	\$0.739	\$0.739	Amazon
<a href="#">5-Conductor Cable</a>	10'	455.28	\$9.11	Mouser
<a href="#">Female Headers (36 pin) (Five-Pack)</a>	1/5	\$2.95	\$0.59	Mouser
<a href="#">Strap Set: Gear Strapz (+5 Clasps)</a>	1/12	\$18.22	\$1.52	Amazon