

TABLE S1. List of components (corresponding to Figure 1) and approximate costs.

PART NAME	DESCRIPTION	QTY	COST
End cap*	Acetal, fabricated with lathe and milling machine	2	\$33.00
-235 O-ring	Oil-Resistant Buna-N O-ring	2	\$0.66
-237 O-ring	Oil-Resistant Buna-N O-ring	2	\$0.72
Tube	Extruded acrylic tube; OD 4.125", ID 3.625" \pm 0.03"	1	\$58.48
Electronics mount plate	Acrylic; 10" \times 2.5" \times 1/8"	1	\$1.97
UNO	Arduino UNO	1	\$25.00
Perf board	Electrocookie; 2 \times 3.5"	1	\$2.50
	Screw terminals, wire, resistors, AC adapters	-	low
Battery holder	8 AA, 12 V	1	\$4.25
Shield	Adafruit Data Logger Shield	1	\$14.00
	SD card	1	\$10.00
	Coin battery (CR2032)	1	\$1.50
Pressure sensor	0-0.2 Mpa, 4-20 mA	1	\$25.00
Thermowell	1/2" NPT	1	\$13.00
	Adafruit 10kOhm Epoxy thermistor	1	\$4.00
Screw	Socket Head; 10-32 \times 3/4"	12	\$2.33
End cap cover*	Acrylic; 1/2" or 3/8"; cut with laser cutter then tapped	2	\$4.22
		TOTAL	\$200.63

*CAD files are available at https://grabcad.com/library/diy_oceanography_tdd-1.