## **Table List of Parts Needed**

	Item	Description	Link	Price (€)	Comments
4	Custom Carrier Board	Custom PCB for M0-based OpenCTD	https://a.co/d/hlJF9NW	12.99	probably not the right link
5	Adafruit Feather M0 Adalogger	Microcontroller	https://www.adafruit.com/product/2796	19.95	Amazon.de for 28 euro
7	Adafruit DS3231 Precision RTC Breakout	Real-time clock	https://www.adafruit.com/product/3013	17.5	Amazon.de for 25 euro
8	CR1220 3V Coin Cell Battery	To power RTC	https://amzn.eu/d/gCg9msD	6.64	link good
9	Atlas Scientific EZO Conductivity Circuit	Measures conductivity	https://www.atlas- scientific.com/productpages/circuits/ezoec.html	64.34	guess we need this circuit
16	Adafruit DS3231 Precision RTC FeatherWing	Real-time clock	https://amzn.eu/d/ilk9QE7	21.99	is this the same as item 7 which is also a RTC clock
17	Adafruit Stacking Headers	For connecting RTC	https://amzn.eu/d/4mRsWOw	2.8	
18	Adafruit Perma-Proto Small Breadboard PCB	For protoboard version	https://www.adafruit.com/product/1214	7.52	can we find it elsewhere is it needed?
	DS18B20 Temperature Sensor in	Measures			okay Martin was commenting

21	Stainless Steel Housing	temperature	https://a.co/d/24QHySY	7.99	on this yesterday
22	Atlas Scientific K 1.0 Mini Conductivity Probe	Measures conductivity	https://www.atlas- scientific.com/product <i>pages/probes/ec</i> k1-0- mini.html	123.99	need to check if we need both the normal and mini probe
23	Atlas Scientific K 1.0 Conductivity Probe	Measures conductivity	https://www.atlas- scientific.com/product <i>pages/probes/ec</i> k1- 0.html	157.99	probably need this
24	MS5803-14BA Pressure Sensor Breakout	Measures pressure	https://amzn.eu/d/5gxiEdw	79.23	hmm expensive !!
25	MS5803-14BA Pressure Sensor SMC	Pressure sensor chip	https://www.digikey.de/en/products/detail/te- connectivity-measurement- specialties/MS580314BA01-00/5277631	23.63	okay
26	SOIC to DIP Adapter	For pressure sensor	https://amzn.eu/d/af9ZiLB	8.9	okay
28	Lithium Ion Battery Pack 3.7V 2000 mAh	Battery for OpenCTD	https://amzn.eu/d/fCoCx4s	17.09	okay
29	Board- mounted switch	Internal power switch	https://amzn.eu/d/fWvyRN0	1.39	yes
33	Half-size breadboard	For testing circuits	https://amzn.eu/d/2MireJq	11.99	okay
34	Screw Terminal Block Extra Long Pins for Breadboarding (3)	For connecting sensors during testing	https://amzn.eu/d/iAapgTb	8.15	need to checkl with Martin
64	Conductivity calibration	For calibrating conductivity	https://atlas-scientific.com/calibration- solutions/conductivity-calibration-k-1-0-set/	15.89	

	solution	probe			
65	openrov 30bar IMU	Waterproof IMU	https://amzn.eu/d/fEwTTNr	10.99	please check !!