

Class	1MCT2
First Name:	Hannes
Name	Deblaere
Project Name :	ElectroTerra
Assembly Revision :	
Approval Date :	
Part Count :	11
Total Cost :	€57

Part #	Part Name	Description	Revision	Qty
1	raspberry pi 4 model B	Raspberry Pi that hosts the website and contains frontend and backend	1	1
2	terrarium	terrarium with ventilation	1	1
3	DS18B20	1-wire temperature sensor	1	1
4	DHT22	humidity website	1	1
5	LDR	light sensor	1	1
6	LED-strip	light for the terrarium	1	1
7	PC ventilator	ventilation for the terrarium	1	1
8	display 1602	this shall show the ip address	1	1
9	transistor TIP120	to enable the ventilator	1	1
10	jumper wires	to connect everything	1	1

11	MCP3008	to send the LDR data to the pi	1	1
12	PCF8574	this makes the LCD display I2C	1	1
13	resistors		1	1
14	LED-strip driver	make it easy to control the led's	1	1
15	1N5817	diode for the ventilator	1	1
16	level converter or level shifter	to transfer data from arduino to pi or otherwise	1	1
17	arduino	to control the leds and DHT	1	1
Total			11	

Picture of Assembly

(picture can only be added with END delivery of pro

Supplier	also available from	Units	Unit Cost
raspberry pi website	bol.com	1	35,00 €
father	animalstore	1	- €
aliexpress	bol.com	1	1,18 €
amazon	aliexpress	1	3,51 €
aliexpress	antratek	20	0,62 €
aliexpress	bol.com	1	13,61 €
old PC	reichelt.com	1	
aliexpress	amazon	1	1,05 €
aliexpress	amazon	10	1,09 €
aliexpress	amazon	40	1,17 €

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Max Cost	Real Cost
€ 35,00	
€ -	
€ 1,18	
€ 3,51	
€ 0,62	
€ 13,61	
€ -	
€ 1,05	
€ 1,09	
€ 1,17	

€ -

€ 57,23