							GBP/EUR ratio			1,2652
		Farnell T					E			
Qty	Value	Note	Parts	Code	Unit price	Total	Code	Unit price	Total	Combined
6	Arduino header 1x8-pin		ADCL, ADCH, Comm, PWML, PWMH, X8	1022256	0,081	£0,48	ZL201-08G	0,074	0,44 €	0,44 €
6	10n	1206	C1, C5, C7, C10, C40, C41	1759350	0,034	£0,21	CL31B103KBCNNNC	0,012	0,07 €	0,07 €
26	100n	0603	C11, C12, C13, C14, C15, C16, C17, C18, C20, C21, C22, C23, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C36, C38, C39, C49	1759016	0,006	£0,16	CL10B104KO8NNNC	0,006	0,15 €	0,15 €
1	47u	16V	C19	9695664	0,189	£0,19	EEEFK1C470UR	0,190	0,19€	0,19€
2	470n	1812, 100V	C2, C8	1828961	0,484	£0,97	CL43B474KCHNNNE	0,133	0,27 €	0,27 €
1	10u	35V	C24	1850112	0,204	£0,20	EEEFK1V100R	0,210	0,21€	0,21 €
1	1u		C3	2320827	0,057	£0,06	CL21B105KAFNNNG	0,011	0,01€	0,01 €
1	1F	Supercap 5V	C37	9697497	2,780	£2,78	EECS5R5H105	2,390	2,39€	2,39 €
2	EEUFC1J220		C4, C9	9692495	0,221	£0,44	EEUFC1J220	0,163	0,33€	0,33 €
2	18p		C42, C43	2320820	0,019	£0,04	CL21C180JBANNNC	0,010	0,02€	0,02 €
3	10u	1206	C6, C35, C44	1759445	0,057	£0,17	CSMD10U1206X	0,060	0,18€	0,18 €
6	BAS316		D1, D2, D3, D4, D5, D7	8734275	0,149	£0,89	BAS316	0,020	0,12 €	0,12 €
1	SKL16		D8	1299282	0,243	£0,24	SKL16	0,095	0,10€	0,10 €
1	BAT54S		D9	1843723	0,066	£0,07	BAT54S-DIO	0,020	0,02€	0,02 €
1	Arduino header 2x18- pin		Digital	2025426	1,820	£1,82	-			2,30 €
1	TLC5925		IC1	1694438	0,894	£0,89	<u>-</u>			1,13 €
1	SN74LV125APW		IC10	9592512	0,621	£0,62	SN74LV125APW	0,180	0,18€	0,18 €
2	Si8620EC-B-IS		IC11, IC12	2423243	1,560	£3,12	-			3,95€
1	PCA21125		IC14	2400445	1,070	£1,07	-			1,35 €
1	AT25256B		IC15	1841577	0,757	£0,76	25AA256-I/SN	1,090	1,09€	0,96 €
1	ENC28J60-I/SS		IC16	1811239	2,240	£2,24	ENC28J60-I/SS	2,540	2,54 €	2,54 €
6	SN74LVCC3245ADBR	SSOP-24	IC2, IC3, IC4, IC5, IC7, IC8	2342537	0,443	£2,66	-	·	·	3,36 €
1	SN74LV1T34		IC21	2499915	0,157	£0,16	-			0,20 €
1	LD1117ADT33TR		IC6	1087169	0,458	£0,46	LD1117ADT33	0,506	0,51 €	0,51 €
2	Si8660EC-B-IS1		IC9, IC13	2423343	3,240	£6,48	-			8,20 €
1	Arduino socket 2x3-pin		ICSP	7991983	0,605	£0,61	ZL262-6DG	0,066	0,07€	0,07 €

2	BS-244DSM-R	Binding post 4mm, red	J1, J3	1815818	2,120	£4,24	BS-244DSM-R	1,170	2,34 €	2,34 €
2	BS-244DSM-R	Binding post 4mm, black	J2, J5	1815819	2,110	£4,22	BS-244DSM-B	1,170	2,34 €	2,34 €
1	BS-244DSM-G	Binding post 4mm, green	J4	1815820	2,170	£2,17	BS-244DSM-G	1,170	1,17 €	1,17 €
2	826926-2	2-pin jumper	JP1, JP3	1248140	0,057	£0,11	826926-2	0,100	0,20 €	0,14 €
1	826926-3	3-pin jumper	JP2	1248141	0,037	£0,07	826926-3	0,110	0,20 €	0,14 €
1	0R-JUMPA	Zero-ohm jumper	JP4	9233750	0,012	£0,01	SMD0805-0R	0,059	0,11€	0,03 €
2	RT424005	Relay 5V, 8A	K_PAR, K_SER	9950168	2,510	£5,02	RT424005	1,730	3,46 €	3,46 €
2	G6K-2F-5DC	Signal relay	K_S1, K_S2	4446185	2,810	£5,62	G6K-2F-5DC	2,510	5,02€	5,02 €
2	60R@100MHz	Ferrite bead 60R	L1, L2	1635704	0,033	£0,07	LCBA-600	0,027	0,05 €	0,05 €
1	TFT 320QVT	See below	LCD1	-	0,000	20,01	-	0,021	0,03 C	0,03 C
2	HSMH-C170	0805 red LED	LED CC1, LED CC2		0,140	£0,28	HSMH-C170	0,056	0,11 €	0,11 €
4	HSMY-C170	0805 yellow LED	LED CV1, LED CV2,		0,140	£0,56	HSMY-C170	0,060	0,11 €	0,11 €
7		•	LED_GV1, LED_GV2, LED_S1, LED_S2	3190010	0, 140	20,50		·		
2	HSMF-C155	1210, red/green LED	LED_O1+, LED_O1-	5790888	0,173	£0,35	HSMF-C155	0,124	0,25 €	0,25 €
2	HSMG-C170	0805 green LED	LED_O2+, LED_O2-	5790852	0,150	£0,30	HSMG-C170	0,095	0,19 €	0,19€
1	HSMR-C170	0805 blue LED	LED_PWR	2497350	0,302	£0,30	OSB50805C1E	0,049	0,05 €	0,05€
1	Arduino Mega2560 header 1x6-pin		Power	1022255	0,119	£0,12	ZL201-06G	0,052	0,05€	0,05€
5	IRLML2246TRPBF		Q1, Q2, Q3, Q5, Q9	1888166	0,099	£0,49	IRLML2246TRPBF	0,100	0,50 €	0,50 €
8	2N7002		Q4, Q6, Q7, Q8, Q10, Q11, Q12, Q13	1713823	0,038	£0,30	2N7002	0,034	0,28€	0,28 €
4	4K7		R1, R3, R7, R14	9333266	0,012	£0,05	RC0805FR-074K7	0,007	0,03 €	0,03 €
1	560R		R11	9333363	0,014	£0,01	RC0805FR-07560R	0,007	0,01€	0,01 €
2	10K		R12, R15	9237755	0,009	£0,02	RC0805FR-0710K	0,006	0,01 €	0,01 €
4	49R9		R16, R17, R18, R19	2141727	0,016	£0,06	RC0805FR-0749R9	0,007	0,03€	0,03 €
2	1R		R2, R8	2141629	0,016	£0,03	RC0805FR-071R	0,008	0,02€	0,02 €
1	10R		R20	2380677	0,111	£0,11	RC0805FR-0710R	0,007	0,01€	0,01 €
1	2K2 1%		R21	2138946	0,024	£0,02	SMD0805-2K2-1%	0,008	0,01 €	0,01 €
1	120R 1%		R23	2447561	0,002	£0,00	CRCW0805120RFKTA BC	0,008	0,01€	0,00€
2	200R		R24, R25	9332758	0,016	£0,03	RC0805FR-07200R	0,007	0,01 €	0,01€
4	240R		R26, R27, R33, R34	9332871	0,016	£0,06	RC0805FR-07240R	0,007	0,03€	0,03€
10	100K		R4, R6, R9, R10, R13, R22, R28, R31, R35, R36	1887334	0,017	£0,17	SMD0805-100K-1%	0,008	0,08€	0,08€
1	100R		R40	1099793	0,024	£0,02	RC0805FR-07100R	0,007	0,01 €	0,01€
1	10K	1206	R41	2331878	0,041	£0,04	HP06-10K1%	0,016	0,02 €	0,02€
2	1K		R42, R43	1099800	0,024	£0,05	RC0805FR-071K	0,007	0,01 €	0,01€
1	1K5		R5	9332600	0,016	£0,02	RC0805FR-071K5	0,007	0,01 €	0,01€
1	LD-BZEN-0903	Buzzer without built-in generator	SG1	-			LD-BZEN-0903	0,477	0,48€	0,48 €

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2	282836-4	Terminal block 4-way, 1.5mm2, 5mm	X1, X3	3089058	0,701	£1,40	282836-4	0,640	1,28 €	1,28 €
1	LMJTAB881243M-L	RJ-45 with transformer, LEDs	X9	-			LMJTAB881243M-L	2,220	2,22€	2,22€
2	MC000005	6-pin push-in connector	X2, X4	2007971	1,190	£2,38	-			3,01 €
3	22-23-2021	2-pin 0.1" socket	X8, X10, X11	1462926	0,040	£0,12	MX-22-23-2021	0,060	0,18€	0,15€
1	9185067324	IDC 6-pin	X5	1096984	0,745	£0,75	T821-1-06-S1	0,238	0,24 €	0,24 €
2	09185106324	10-pin IDC socket	X6, X7	1106832	1,020	£2,04	09185106324	0,820	1,64 €	1,64 €
2	22-23-2031	3-pin 0.1" socket	X9, X11	1462950	0,062	£0,12	MX-22-23-2031	0,070	0,14 €	0,14 €
1	32,768kHz	RTC XTAL	Y1 .	2449395	0,151	£0,15	32.768K-TC38	0,142	0,14 €	0,14 €
1	25MHz	Ethernet XTAL	Y2	2467741	0,206	£0,21	25.00M-SMDHC49S	0,359	0,36 €	0,26 €
1	4V3	MiniMELF	ZD5	1466545	0,023	£0,02	BZV55-C4V3.115	0,020	0,02€	0,02€
9	Screwed spacer sleeve; M5; 8mm; brass	See picture <i>EEZ Arduino</i> shield binding posts extensions.JPG	n/a	-	,	,	TFM-M5X8/DR218	0,187	1,68 €	1,68 €
11	Light pipe for LED	Round; Ø3mm; Front: convex; straight		2293496	0,362	£3,98	PLP2-500	0,436	4,79€	4,79 €
		· •				£63,90			38,76 €	61,88 €
Optio	nal (input and output pr	otection)								
1	SMBJ5.0A-TR		D6	2353654	0,071	£0,07	SMBJ5.0A-TR	0,089	0,09€	0,09€
1	1301.9316	Tactile switch	SW1	1217765	0,510	£0,51	1301.9316	0,220	0,22€	0,22 €
	P4SMAJ36A	Model 0-30V	ZD1, ZD2, ZD3, ZD4	1899455	0,186	£0,19	P4SMAJ36A-DIO	0,105	0,11 €	
	P4SMAJ48A	Model 0-40V		1749310	0,157	£0,16	P4SMAJ48A-DIO	0,102	0,10 €	
2	P4SMAJ60A	Model 0-50V	ZD1, ZD2, ZD3, ZD4	1899460	0,098	£0,20 1,1194	P4SMAJ60A-DIO	0,105	0,21 € 0,7262	0,21 € 0,5192
Optio	nal (V/F converters for b	pattery temperature)								
2	100n	0603	C45, C47	1759016	0,006	£0,01	CL10B104KO8NNNC	0,006	0,01€	0,01€
2	47n		C46, C48	1759260	0,015	£0,03	CC0805KRX7R9473	0,009	0,02€	0,02€
2	BC857BS		IC17, IC19	1081247	0,035	£0,04	BC857BS	0,027	0,03€	0,03 €
2	NE555D		IC18, IC20	9589880	0,194	£0,39	TLC555CD	0,250	0,50€	0,49€
2	HCPL-181		OK1, OK2	1244525	0,255	£0,51	HCPL-181-000E	0,250	0,50€	0,50 €
4	1K5		R29, R32, R37, R39	9332600	0,016	£0,06	RC0805FR-071K5	0,007	0,03€	0,03 €
				0.4.4==00	0,009	£0,02	RC0805JR-07180R	0,060	0,12€	0,02€
2	180R		R30, R38	2447583	0,009	20,02	1100000011 07 10011	0,000	0,12 C	
2	180R		R30, R38	244/583	0,009	£1,06	1100000011 07 10011	0,000	1,21 €	1,10 €
	no boards		R30, R38		,	£1,06		·	1,21 €	
	<mark>no boards</mark> Arduino Mega2560r3	8-bit MCU, 5V	R30, R38	2212779	28,760	£1,06 £28,76	A000067	35,900	1,21 € 35,90 €	
	no boards	32-bit MCU, 3.3V	R30, R38		,	£1,06		·	1,21 €	

3 2" -	TFT Touch screen with S	D-card (TET 3200VT)								
J. 2	Search on eBay, etc. for	- 3.2" TFT LCD Display Mod esolution, total physical dime								
1	Socket 2x20-pin			7992033	2,04	£2,04	ZL262-40DG	0,330	0,33 €	0,330 €
4	Screwed spacer sleeve; hexagonal; polyamide	10mm, M2.5	Do not use metal spacer!	-	_,0 :	~=,0 :	TFF-M2.5X10/DR182	0,1748	0,70 €	0,70 €
4	Spacer sleeve; 4mm; cylindrical; brass	Internal diameter 2.6mm	Special series	-			DR315/2.6X4	0,0732	0,29€	0,29€
	o,aa., 2.200									1,32 €
Cable	es es									
1	Ethernet cable: search of Cable PC	on eBay, etc. for <i>RJ45 Male</i>	to Female Panel Mou	nt Ethernet Netw	ork Lan Ext	ension				
1	Mega2560 USB cable: Search on eBay, etc. for USB 2.0 B Male to USB B Female Printer Panel Mount Extension Cable									
1	Due USB cable: Search on eBay, etc. for USB 2.0 B Female Panel Mount to USB Micro Cable									
2	FC10300-S	Ribbon cable with IDC connectors, 10x28AWG, 30cm		2217665	0,847	£1,69	FC10300-S	1,210	2,42€	2,14 €
Enclo	osure									
	Economica EP1153220 (L320 x D200 x H115mm)	http://www.modushop.biz/s	site/index.php?route=p	oroduct/product&p	oath=69_12	4&produc	ct_id=475	19,400	19,40 €	
	Couple of round handles 2U	http://www.modushop.biz/s	site/index.php?route=p	oroduct/product&p	oath=71_15	1&produ	ct_id=304	3,900	3,90 €	
5	Rubber foot	7.1mm, Ø15.9mm; Cutout:		-			RI-SOF-15129	0,191	0,96 €	0,96 €

Ø3.2mm