

Tabelle1

Part	Typ	Data	Manufact	Supplier	Order no	Qty	Price
CATControl board	V2.1		Eurocircuit	Eurocircuit		1	€ 45,00
Genuino MKR1000	Arduino board with WIFI		Genuino	http://www.exp-tech.de	EXP-R55-004	1	€ 36,88
Board-to-Board Connector	Connector 14 pins, 1 Row	SSQ-114-01-G-S	Samtec	http://at.farnell.com	1668311	2	€ 3,00
Power supply		IN:100-230V, OUT:5V/1A	https://www.mtm-pow.com	Machotka	PMAS5 S05-L	1	€ 45,00
X1 (Pin strip for Display)	1 Row x 36, RM2,54	11 pin used		https://www.reichelt.at	SL 1X36W 2,54	0,3	€ 0,21
F1 (Fuse holder)	25mm x 11mm	RM 22,5, Use fuse: 5x20/max 10A	Schurter, 0031.8201	http://at.farnell.com	1162740	1	€ 0,43
F1 Fuse	8A middle	5x20mm	ESKA	https://www.reichelt.at	MTR. 8,0A	1	€ 0,33
R1 (Varistor)	250VAC, RM7,5	B72210S0251K101	EPCOS	http://at.farnell.com	1004355	1	€ 0,51
RL1 – RL8 (Power Relais)	G6RN-1 5VDC	Print Powerrelais 5V / 114R, 230V/8A	Omron	https://www.distrelec.at	137-95-010	8	€ 4,27
O1 – O8 (MOSFET-Relais)	Mosfet Relais, G3VM-61G1	60VAC / 400mA	Omron	https://www.distrelec.at	171-40-049	8	€ 2,34
C103	330nF / 650V	MKP, RM27,5 (32x18mm)	Kemet	https://www.distrelec.at	300-33-188	1	€ 3,62
C101, 102	100nF / 650V	MKP, RM22,5 (26,5x11mm)	Kemet	https://www.distrelec.at	300-33-185	2	€ 1,28
R100 (Power resistor)	2.2k, 5Watt, 750V		Conrad		402176-62	1	€ 0,96
D60 (Diode high voltage)	1N4007, DO-41	Reverse Voltage 1000V, 1A		http://at.farnell.com	1843698	1	€ 0,19
R60, R61	13K	3W, 250V, 2512, 352213KFT	TE Connectivity	http://at.farnell.com	2476515	2	€ 0,72
O60 (Optocoupler)	SFH6106-3, SO-4	Optocoupler 5,3kV, 60mA, 70V	Vishay	http://at.farnell.com	1469572	1	€ 0,70
SG1 (Piezzo Buzzer)		3V-30V/ I _{max} =4mA	Multicomp	http://at.farnell.com	1756516	1	€ 0,89
T41, 71, 73	IRLML2244	P-Channel MOSFET,-20V/-3,4A	Infineon	http://at.farnell.com	2468051	3	€ 0,30
T1, 2, 40, 42, 60, 70, 72, 74	BSS138P	N-Channel MOSFET, 60V, 360mA	NXP	http://at.farnell.com	1859849	8	€ 0,29
Q1 (Crystal for U3)	Cylinder 6 x 1,9mm	32.768kHz, 6pF	CITIZEN	http://at.farnell.com	1652560	1	€ 0,59
U1 (Voltage regulator)	MCP1825S-3302E/DB	In: 2.1-6V, Out: 3.3V/500mA, SOT-223-3	Microchip	http://at.farnell.com	1578404	1	€ 0,49
U2 (EEPROM)	24LC512-I/SM	I2C, 512Kbit, 64Kx8bit, SOIC-8	Microchip	http://at.farnell.com	9758038	1	€ 1,50
U3 (Clock&Watchdog)	DS1388Z-33+T&R	I2C, Realtime clock, Watchdog	Maxim	http://at.farnell.com	2515475	1	€ 4,11
U4 (Oscillator for Buzzer)	TLC555CDR	2V-15V, SOIC-8	Texas Instruments	http://at.farnell.com	8454426	1	€ 0,56
U5, U6 (I/O Expander)	MCP23008-E/SO	I2C, VCC 1,8-5,5V, SOIC-18	Microchip	http://at.farnell.com	1332086	2	€ 0,93
U7 (RS232 – RS422/485)	MAX3483ECSA+T	3,3V-3,6V, NSOIC-8	Maxim	http://at.farnell.com	2512096	1	€ 4,43
IC1 (Comperator)	LM393D	2V-36V, SOIC8	Texas	http://at.farnell.com	2294229	1	€ 0,39
D1, D51 – D58 (Diode)	1N4148TR	100V, 150mA, 4ns	Vishay	http://at.farnell.com	1469384	9	€ 0,09
C1	EEFT1C102AP	1000uF, 16V, 10mm x 10,2mm	Panasonic	http://at.farnell.com	2065974	1	€ 1,27
C3, C40	EEFK1C470UR	47uF, 16V, 5mm x 5,8mm	Panasonic	http://at.farnell.com	9695664	2	€ 0,20
C2,4,5,6,7,8,9,12,13,15,16,60,70,71	C1206C104K5RACTU	100nF, 50V, +-10%, X7R, SMD 1206	Kemet	http://at.farnell.com	1414715	12	€ 0,05
C10, 14	C1206C103K5RACTU	10nF, 50V, +-10%, X7R, SMD 1206	Kemet	http://at.farnell.com	1414713	1	€ 0,09
C11 (Goldcap)	EEC-RG0V155VN	1,5F / 3,6V	Panasonic	Conrad	1482651-62	1	€ 7,59
R40, 46, 70, 78, 79, 83	220R	0,125W, 1%, 150V, 0805	MULTICOMP	http://at.farnell.com	2074404	6	€ 0,02
R41, 71, 80,	560R	0,125W, 1%, 150V, 0805	MULTICOMP	http://at.farnell.com	2074483	3	€ 0,02
R42, 72, 73, 81	1k	0,125W, 1%, 150V, 0805	MULTICOMP	http://at.farnell.com	2073606	4	€ 0,02
R3, R4	3k3	0,125W, 1%, 150V, 0805	MULTICOMP	http://at.farnell.com	2074438	2	€ 0,02
R5, 10, 44, 62, 77, 85, 86	4k7	0,125W, 1%, 150V, 0805	MULTICOMP	http://at.farnell.com	2073779	7	€ 0,02
R2, 47, 84	10k	0,125W, 1%, 150V, 0805	MULTICOMP	http://at.farnell.com	2074334	3	€ 0,02
R6, R7	18k	0,125W, 1%, 150V, 0805	MULTICOMP	http://at.farnell.com	2074387	2	€ 0,02

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R11, 75, 76 ,87	47k	0,125W, 1%, 150V, 0805	MULTICOMP	http://at.farnell.com	2074470	4	€ 0,03
R74	100k	0,125W, 1%, 150V, 0805	MULTICOMP	http://at.farnell.com	2073608	1	€ 0,02
R63	1M	0,125W, 1%, 150V, 0805	MULTICOMP	http://at.farnell.com	2073609	1	€ 0,02
R51 – R58	270R	0,25W, 1%, 200V, 1206	MULTICOMP	http://at.farnell.com	2074612	8	€ 0,02
R8, 43	180R	0,25W, 1%, 200V, 1206	MULTICOMP	http://at.farnell.com	2074583	1	€ 0,02
R45	100R	0,25W, 1%, 200V, 1206	MULTICOMP	http://at.farnell.com	2074536	1	€ 0,02
R82	200R	0,25W, 0,1%, 25ppm, 200V, 1206	Panasonic	Conrad	1467903-62	1	€ 1,19
R9 (Resistor array)	4816P-T01-151LF	8 x 150R, Total 1,28W	Bourns	https://www.distrelec.at	160-32-543	1	€ 1,02
USB Connector	USB 2.0 A-Buchse-A-Buchse	Einbau		https://www.reichelt.at	DELOCK 86317	1	€ 6,00
USB Microlink C - A	Von MKR1000 auf Gehäuse	0,5m weiss		https://www.reichelt.at	SHVP 77180-W	1	€ 1,60
RS485 Connector							
Connectors for 230V Version							
Plug Power supply	PCB 6,3x0,8mm			https://www.distrelec.at	300-66-559	2	€ 0,20
J1 (Dosage)	JST EH	1x3, RM 2,5, 250V/3A	JST	RS-Component	515-1399	1	€ 0,18
J2,J3 (Bowl/Scopper)	MOLEX SPOX	1x6, RM 2,54, 250V/3A	Molex	RS-Component	687-8054	2	€ 0,08
J4 (Discharge Pump)	MOLEX KK 396	1x3, RM 3,96, 250V/7A	Molex	RS-Component	670-5231	1	€ 0,38
J5 (Fan)	MOLEX KK 396	1x2, RM 3,96, 250V/7A	Molex	RS-Component	670-5237	1	€ 0,07
J6 (Heater)	SUPU Serie B, 1x3	19A/600V		https://www.pollin.at	451873	1	€ 0,75
J7 (Water valve)	JST XH	1x2, RM 2,5, 250V/3A	JST	RS-Component	820-1554	1	€ 0,12
J8 (CAT-Sensor)	JST XH	1x5, RM 2,5, 250V/3A	JST	RS-Component	820-1560	1	€ 0,16
J9 (Water sensor)	MOLEX KK 254	1x3, RM 2,54, 250V/4A	Molex	RS-Component	483-8477	1	€ 0,19
J10 (RS485)	MOLEX KK 254	1x2, RM 2,54, 250V/4A	Molex	RS-Component	483-8461	1	€ 0,19
J11 (Option)	MOLEX KK 254	1x3, RM 2,54, 250V/4A	Molex	RS-Component	483-8477	1	€ 0,19
Connectors for 110V Version							
Plug J2 (Scopper)	JST XH6P ST	1x6, RM 2,5, 250V/3A	JST	https://www.reichelt.at	JST XH6P ST	1	€ 0,26
Plug J1 (Dosage pump)	JST XH3P ST	1x3, RM 2,5, 250V/3A	JST	https://www.reichelt.at	JST XH3P ST	1	€ 0,16
Plug J7 (Water valve)	JST XH2P ST	1x2, RM 2,5, 250V/3A	JST	https://www.reichelt.at	JST XH2P ST	1	€ 1,10
Plug J3 (Bowl)	JST EH6P ST	1x6, RM 2,5, 250V/3A	JST	https://www.reichelt.at	JST EH6P ST	1	€ 0,22
Plug J5 (Heater van)	JST VH2P ST	1x2, RM 3,96, 250V/10A	JST	https://www.reichelt.at	JST VH2P ST	1	€ 0,13
Plug J4 Drain pump	JST VH3P ST	1x3, RM 3,96, 250V/10A	JST	https://www.reichelt.at	JST VH3P ST	1	€ 0,19