

Name	Type	Value	Quantity	Size/Package	Note
C1	Capacitor	100u, 50V surface mount	1	8x11.5mm	>=50V
C2	Capacitor	220u, 35V surface mount	1	8x11.5mm	>=35V
C3, C4	Capacitor	0.1μ	2	SMD 0805	Filter cap
D1	Diode	S1B	1	SMA	Half-wave rectifier
D2	Diode	SS34	1	SMB	Schottky
DF	Diode	S1B	1	SMA	Flyback protection
TVS0-9	TVS	SMBJ48CA	10	SMB	Bidirectional transient voltage suppressor
IC1	IC	LM2596S-5.0	1	DDPAK/TO-263	Switching regulator
IC2	IC	74HC595N	1	SOIC-16	Shift register
IC3	IC	DS1307	1	SOIC-8	RTC
L1	Inductor	150uH	1	SMD CDRH125	power inductor
LED	LED	Green	1	SMD 0805	Power indicator LED
RLED	Resistor	1K	1	SMD 0805	LED current limiting
ROE	Resistor	10K	1	SMD 0805	NOE pull-up resistor
RQ	Resistor	10K	1	SMD 0805	MOSFET pull-down resistor
RR	Resistor	4.7K	1	SMD 0805	Rain sensor current limiting resistor
RS	Resistor	33K	1	SMD 0805	Rain sensor pull-up resistor
Q1	MOSFET	2N7002	1	SOT-23	MOSFET (for driving relay)
T1-T8	Triac	BT1308W	8	SOT-223	solenoid driver
AC IN	Term. Block	screw terminal	1	HT3.96-2p	AC in
COM, Rain	Term. Block	screw terminal	2	2EDG 5.08-2p	COM, Rain sensor port
S1-8	Term. Block	screw terminal	1	2EDG 5.08-8p	Station terminals
Relay	Relay	HK23F-DC5V	1		Mini-relay (5V, contact rating 120VAC/2A)
EXP	Header	2x4 male right-angled	1		zone expansion connector
X1	resistor	32.768KHz	1		crystal for RTC
PTC	PTC fuse	SMD 1812, 1A	1		fuse (on 5V line)
FUSE	2A fuse	Solder-on fuse	1		fuse (on 24VAC line)
Battery holder	Bat	12mm	1		backup batt for RTC
Coin battery	Bat	CR1220 coin	1		

Separation Pillars	Pillars	M3 x 17	3		
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