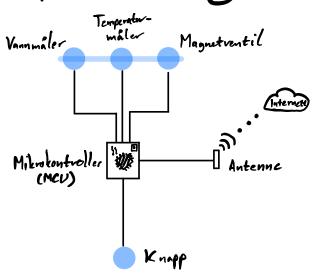
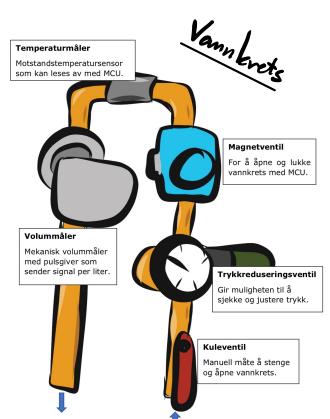
## Forenklet System-tegning



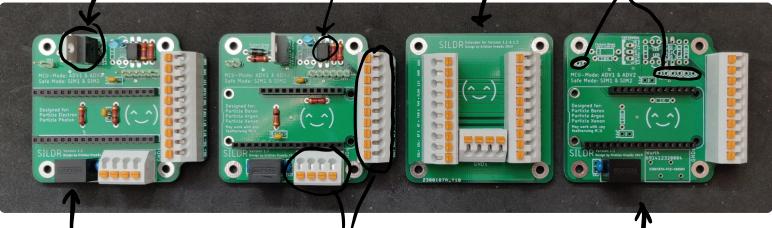


Mosfet: 3V3 - 12V (MCV) (Mognetventil)

(Kuapp)

Skjødelads

Pins for a bythe mollom avansert og enkel krets (Bypneser MCU)



Stupenselesjon

Ledningsterminaler



Summe kretskort kan bunkes til mesh med færre deler

## Bateri

State	Volts	Current (A)	Power (W)
Idle	12	0.025	0.3
Active	12	0.05	0.6
Peak	12	0.1	1.2
Spikes	12	2	24
Solenoid	12	1.16	13.92
Max	12	1.26	15.12

Bad Case						
Simplified	Power (W)	Time (%)	Ah			
Activated	15.1	10.0 %	3.0			
Not activated	1.20	90.0 %	2.2			
		SUM	5.2			

Best Case					
Simplified	Power (W)	Time (%)	Ah		
Activated	14.5	1.6 %	0.5		
Not activated	0.05	98.4 %	0.1		
		SUM	0.6		

# Code for Battery Life Ah = 180 # Battery Ah-rating dph = 0.0001 # Discharge per hour	
active_time = 0.025 # Active time per day idle_time = 1 - active_time # Idle time per day active_Ah = 14.5 idle_Ah = 0.05	
ah = (active_time*active_Ah + idle_time*idle_Ah)/24  # System Ah-usage print(Ah)	
hpw = 7*24 # Hours per week h = 0 # Hours for following loop	
while Ah > 0: Ah = Ah - Ah*dph - ah h += 1	
days = round((h-1)/24) print("Estimated days of battery life:", days)	

Batterier	V	Ah (20-timer)	Days (Bad)	Days (Max)		Pris	Kommentar	Link
MC Gel	12	21	6	48	kr	769.00	Hendig og billig, 8kg	https://tinyurl.com/y3vsrdle
AGM	12	95	25	184	kr	1,949.00	Tryggest, 25kg	https://tinyurl.com/yygtccob
SMF	12	180	46	299	kr	2,199.00	Lengst varighet, 42kg	https://tinyurl.com/y3xqkakq

Jeg kan ikke nok om batterier til å si sikkert at tallene stemmer, men det ser veldig lovende ut. Solcellepanel vil nok garantere at det holder uendelig, men trengs kanskje ikke. Delene vil sannsynligvis være standard hyllevarer fra biltema, pga. tilgjengelighet og pris.

Systemet er designet for 12V men fungerer helt med til 5,00v (og takler nærmere 30V stabilt).