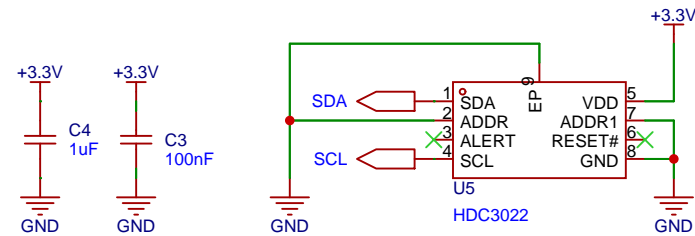
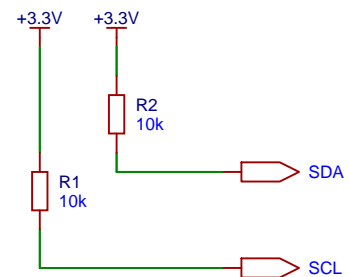


Schematic	Schematic1		Create at	2025-06-12
Board	Weather Station		Update at	2025-06-12
Drawn		Stacy-PlantStation		
Reviewed				
		Version	Size	Page 1 Total 6
EasyEDA		V1.0	A4	EasyEDA.com

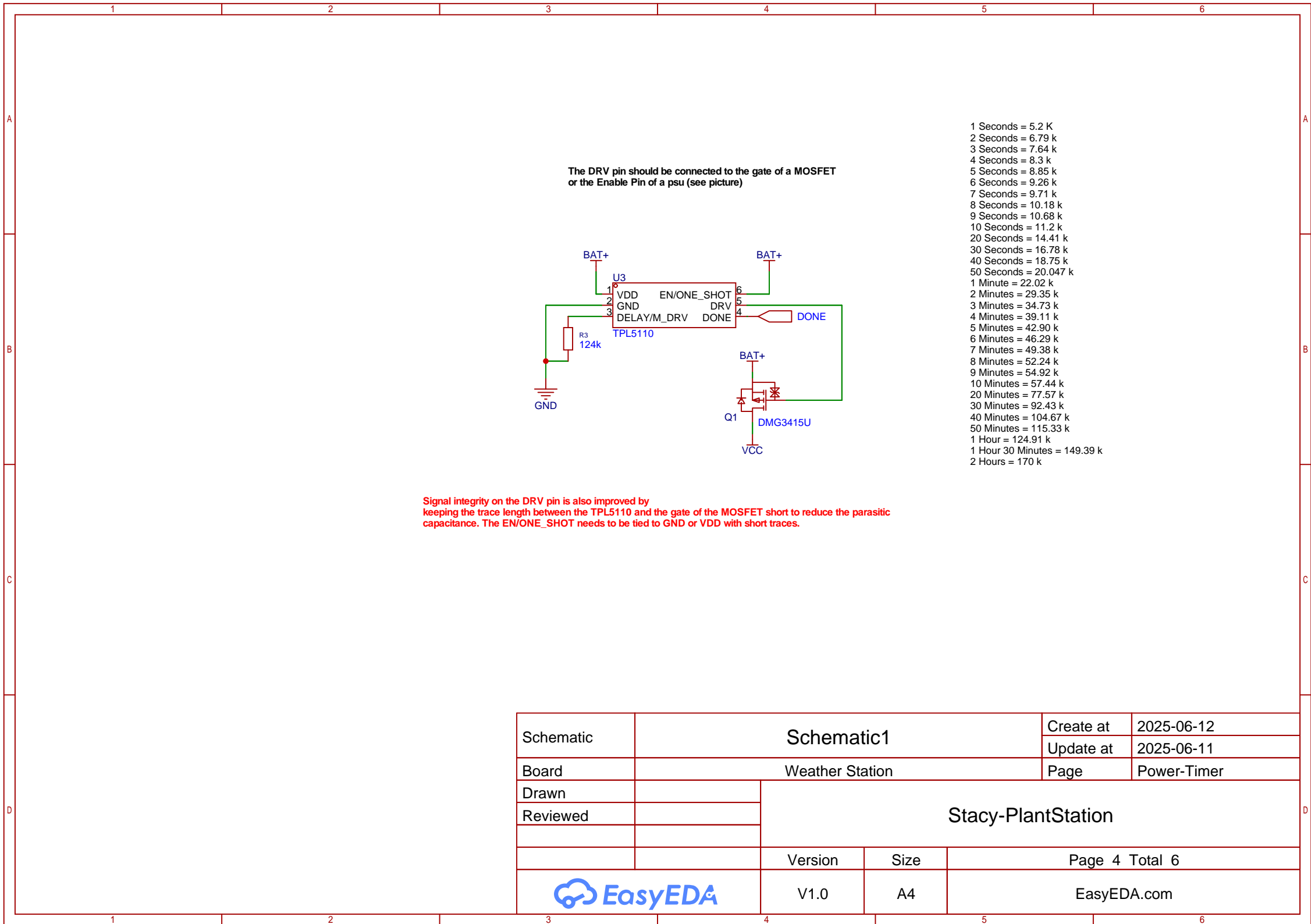
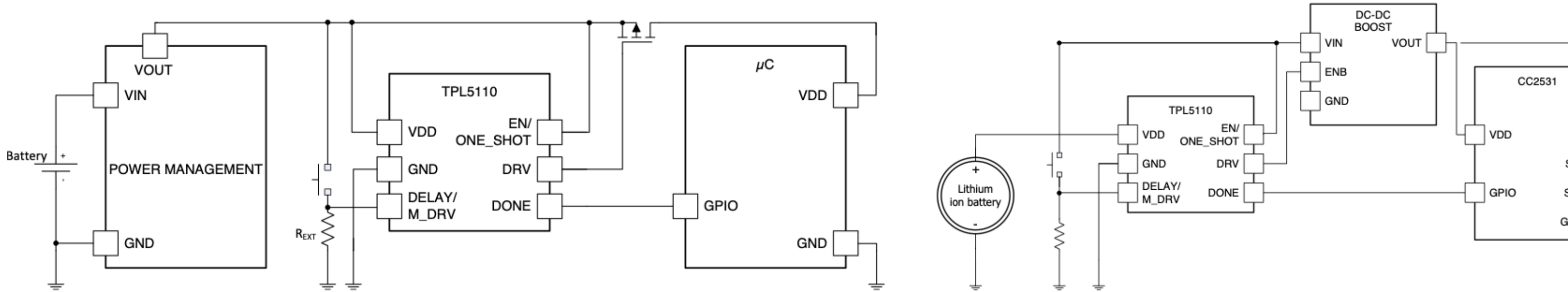


I2C address :  
- 0x44 (ADDR et ADDR1 à low)

Schematic	Schematic1		Create at	2025-06-12
Board	Weather Station		Update at	2025-06-12
Drawn		Stacy-PlantStation		
Reviewed				
		Version	Size	Page 2 Total 6
EasyEDA		V1.0	A4	EasyEDA.com



Schematic	Schematic1		Create at	2025-06-12
Board	Weather Station		Update at	2025-06-11
Drawn		Stacy-PlantStation		
Reviewed				
		Version	Size	Page 3 Total 6
EasyEDA		V1.0	A4	EasyEDA.com



### 7.5.3 Selection of the External Resistance

To set the time interval, the external resistance  $R_{EXT}$  is selected according to [Equation 1](#):

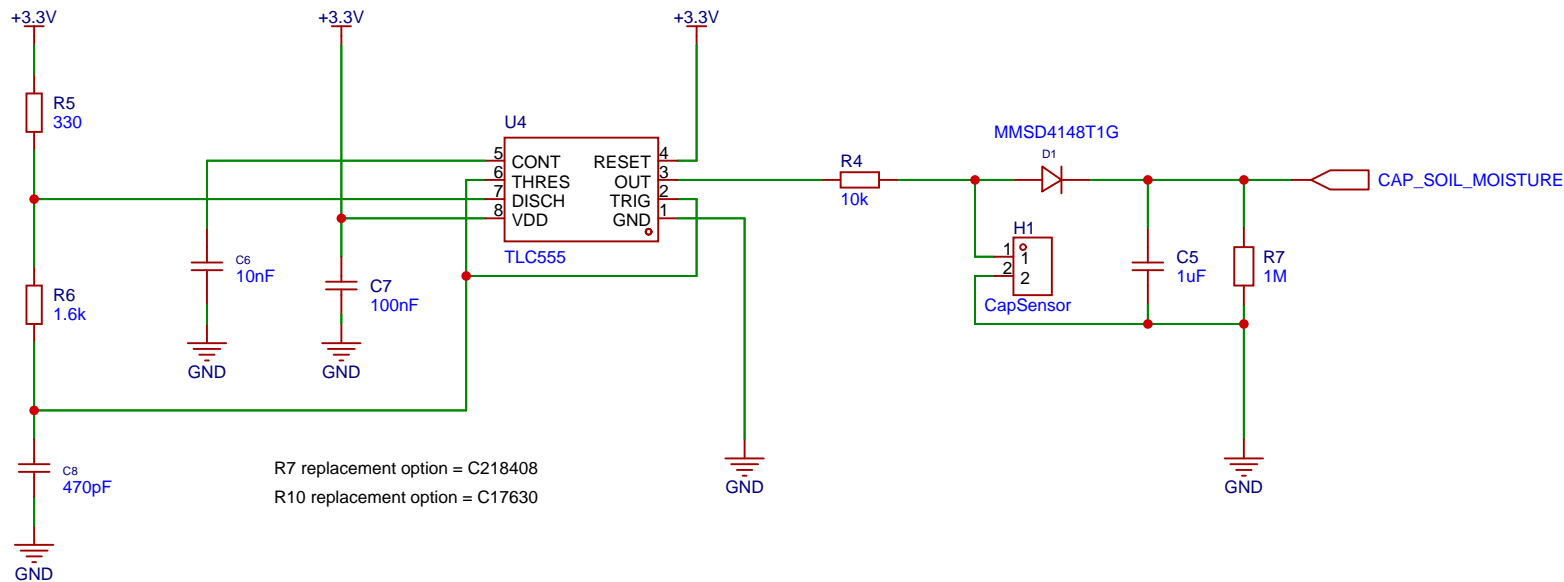
$$R_{EXT} = 100 \left( \frac{-b + \sqrt{b^2 - 4a(c - 100T)}}{2a} \right)$$

where

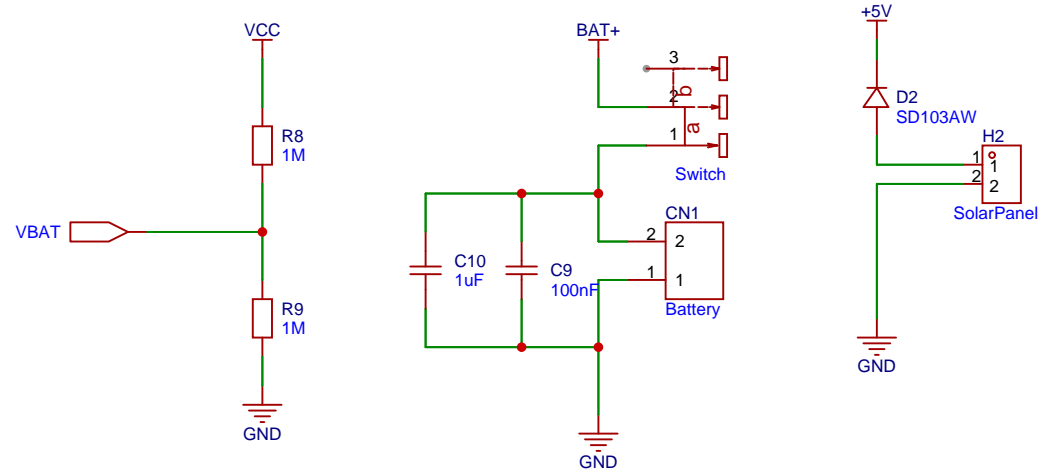
- T is the desired time interval in seconds.
- $R_{EXT}$  is the resistance value to use in  $\Omega$ .
- a, b, c are coefficients depending on the range of the time interval.


Table 1. Coefficients for [Equation 1](#)

SET	Time Interval Range (s)	a	b	c
1	1 < T ≤ 5	0.2253	-20.7654	570.5679
2	5 < T ≤ 10	-0.1284	46.9861	-2651.8889
3	10 < T ≤ 100	0.1972	-19.3450	692.1201
4	100 < T ≤ 1000	0.2617	-56.2407	5957.7934
5	T > 1000	0.3177	-136.2571	34522.4680



Schematic	Schematic1			Create at	2025-06-12
Board	Weather Station			Update at	2025-06-11
Drawn		Stacy-PlantStation			
Reviewed					
		Version	Size	Page 5 Total 6	
EasyEDA		V1.0	A4	EasyEDA.com	



Schematic	Schematic1			Create at	2025-06-12
Board	Weather Station			Update at	2025-06-14
Drawn		Stacy-PlantStation			
Reviewed					
		Version	Size	Page 6 Total 6	
		V1.0	A4	EasyEDA.com	