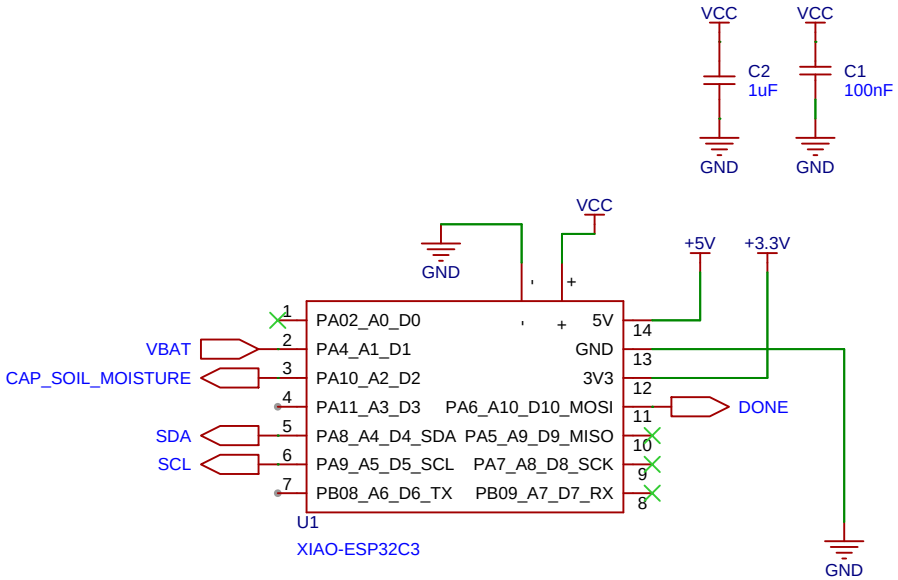
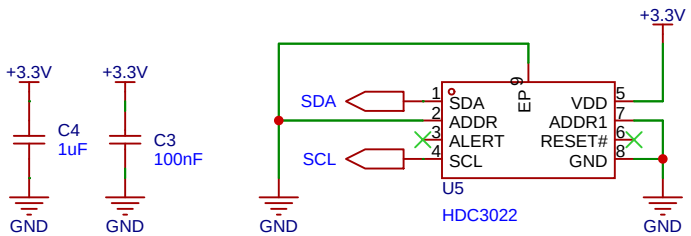
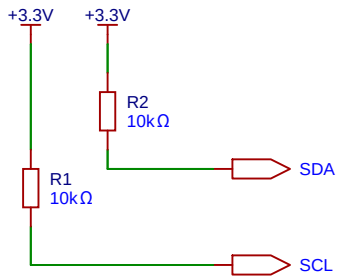


Schematic	Schematic1	Create at	2025-06-12
		Update at	2025-06-12
Board	Weather Station	Page	MCU
Drawn		Stacy-PlantStation	
Reviewed			
		Version	Size	Page 1 Total 6
EasyEDA		V1.0	A4	EasyEDA.com

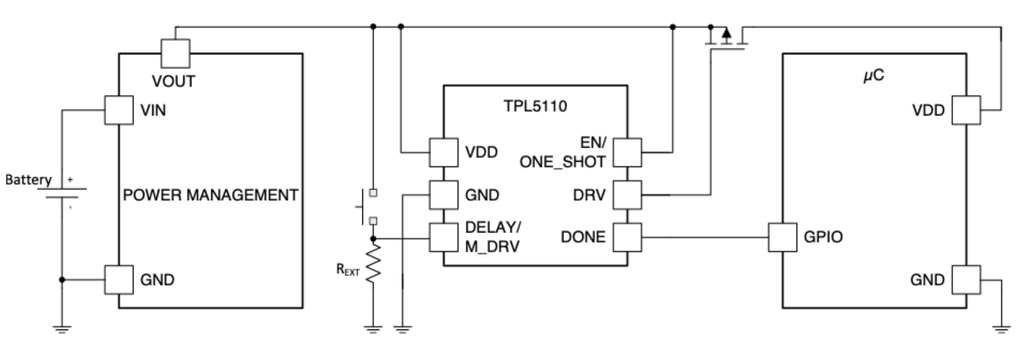


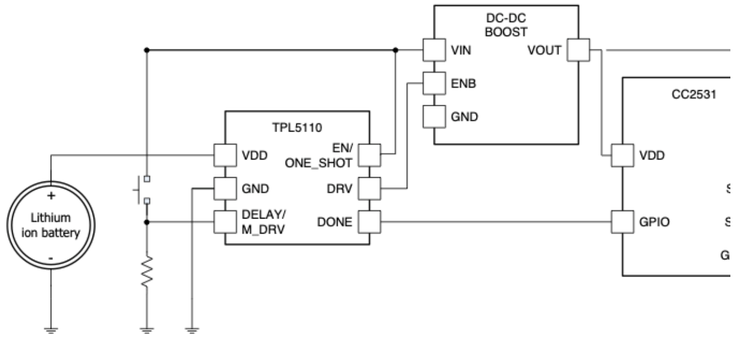
I2C address :
- 0x44 (ADDR et ADDR1 à low)

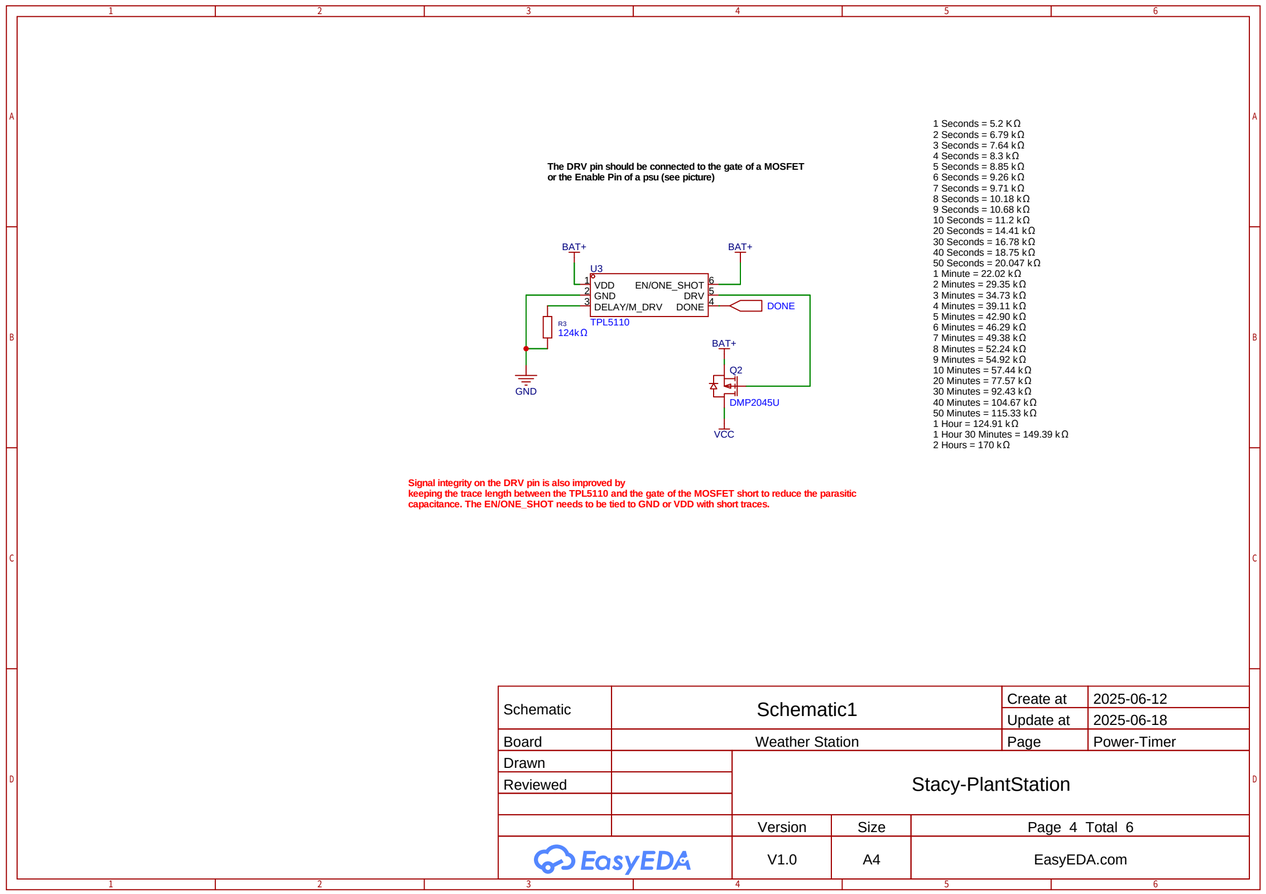
Schematic	Schematic1	Create at	2025-06-12
		Update at	2025-06-12
Board	Weather Station	Page	Temp/Hum/Press
Drawn		Stacy-PlantStation	
Reviewed			
		Version	Size	Page 2 Total 6
EasyEDA		V1.0	A4	EasyEDA.com



Schematic	Schematic1	Create at	2025-06-12
		Update at	2025-06-11
Board	Weather Station	Page	I2C
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:

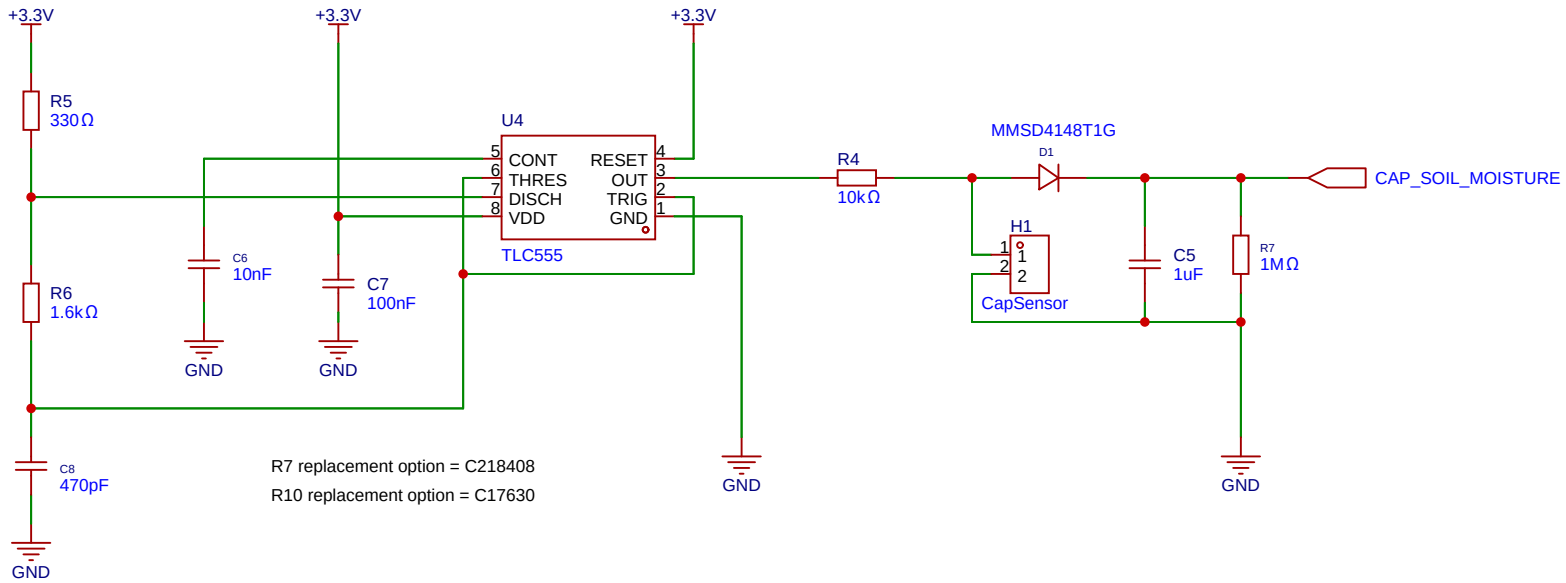
$$R_{EXT} = 100 \left(\frac{-b + \sqrt{b^2 - 4a(c - 100\,T)}}{2a} \right)$$

where

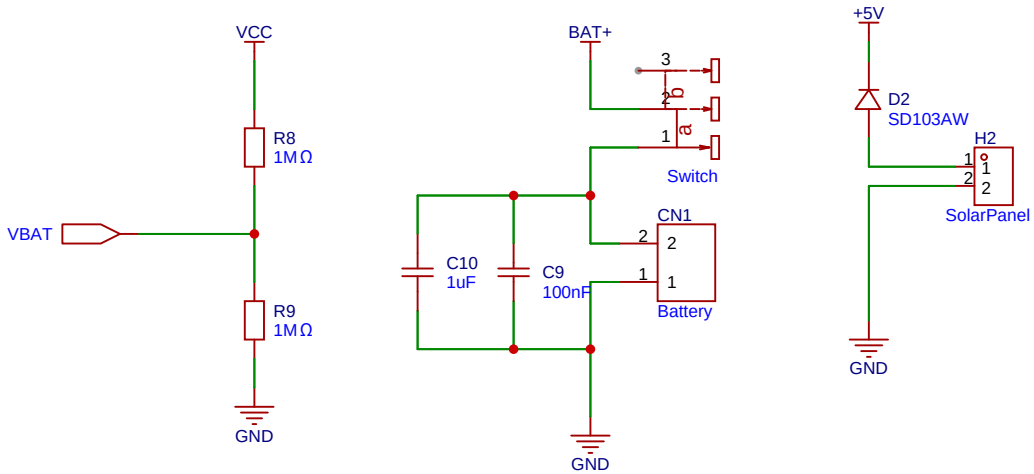
- T is the desired time interval in seconds.
- R_{EXT} is the resistance value to use in Ω.
- a, b, c are coefficients depending on the range of the time interval.

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
		Update at	2025-06-23
Board	Weather Station	Page	Capactive Sensor
Drawn		Stacy-PlantStation	
Reviewed			
		Version	Size	Page 5 Total 6
EasyEDA		V1.0	A4	EasyEDA.com



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