

SeaLabMOS LED Color/Blink Meanings and Troubleshooting Guide

(v1 2025.9.21)

On startup, the sytem with flash the onboard LED 5 times to denote the deviceMode

Device Mode	Meaning	Color
0	Fast sampling every loop	Bright Green, LED always on
1	1-minute mode	Orange
2	10-minute mode	Yellow
3	Charge mode (LED always on)	Purple
4	Bottom Pressure Recorder	Cyan
5	Pressure Only Profile	Red
Other	Unknown mode	White

Immediately afterwards, it will show the battery voltage with the LED using the following scale
If you see both colors (red and purple) it means the voltage is floating between the two

Battery Voltage (V)	Meaning	Color
≥ 4.0	Full	GREEN
3.8–3.6	Mostly full	CYAN
3.6–3.5	Medium	YELLOW
3.5–3.35	Low	PURPLE
3.35–3.2	Critical (no blink)	RED
< 3.2	Dangerously low *FLASHES*	RED

If the sensor(s) initilaize properly and the microSD card is detected and can be written to, the LED is not utilized further to save power; however, if the system flash is observed to continually flash red...

Red flashes can also happen after the before two light patterns
The LED will also flash red when the microSD card or sensor is not detected
If troubleshooting, it will output the actual error to a serial monitor at 115200 baud

Any questions or issues, please call/text/email Sophie Scopazzi

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Email: sscopazzi@pm.me

Website: <https://www.aspectwave.io/>

Website: <https://www.sophiescopazzi.com/projects/sealabmos>

GitHub: <https://github.com/sscopazzi/SeaLabMOS>

This sensor has been provided with the expectation that one day sometime in the future the platform will be returned to Aspect Wave LLC. There is no no set date. Once used to gathered data to your satisfaction the platform shall be returned and all data gathered shared.

Please return the sensor to Aspect Wave LLC, Attn: Sophie Scopazzi, 28 Latham Street, San Rafael, CA 94901