# **Libelium Station Sensors Configuration**

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For this project, I have decided to use one of BEIA's Libelium Stations. We have configured the station using Waspmote IDE.



Figure 1. Libelium Smart Environment Pro Station

## Sensors



Figure 2. Libelium Station with all sensors

- Sulfur Dioxide (SO2)
- Nitric Dioxide (NO<sub>2</sub>)
- Temperature, Humidity and Pressure
- Ozone (O3)
- Carbon Dioxide (CO<sub>2</sub>)



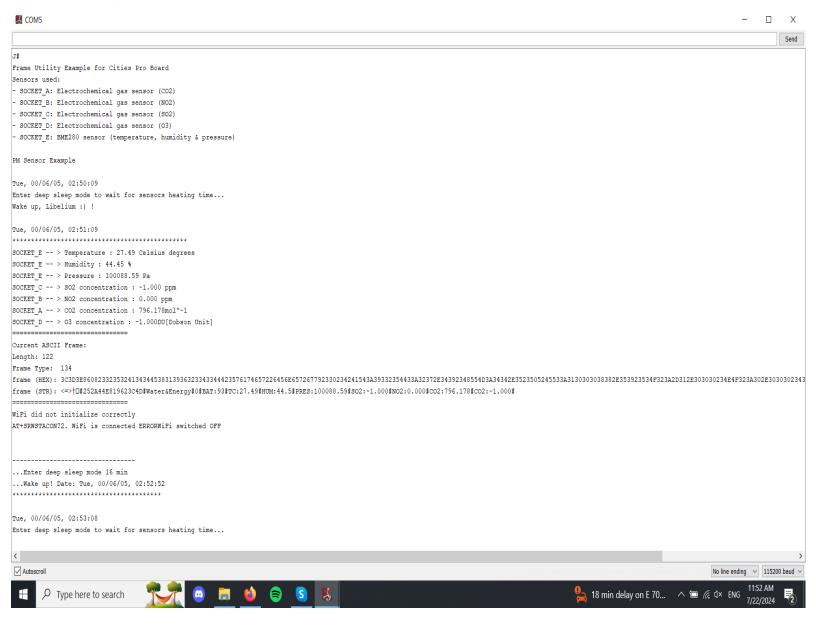
Figure 3. All sensors used for the readings

#### Configuration Guide

Firstly, we have installed Waspmote IDE and connected the Libelium Station via USB to a laptop.

Next, we chose the correct port and made sure our station is recognizable. After that, we wrote the code for the sensor readings and uploaded it. The code is on github: <u>Libelium-Station-Code</u>

The readings are in the figure below, we have set up a big delay (5 minutes) to get more accurate values.



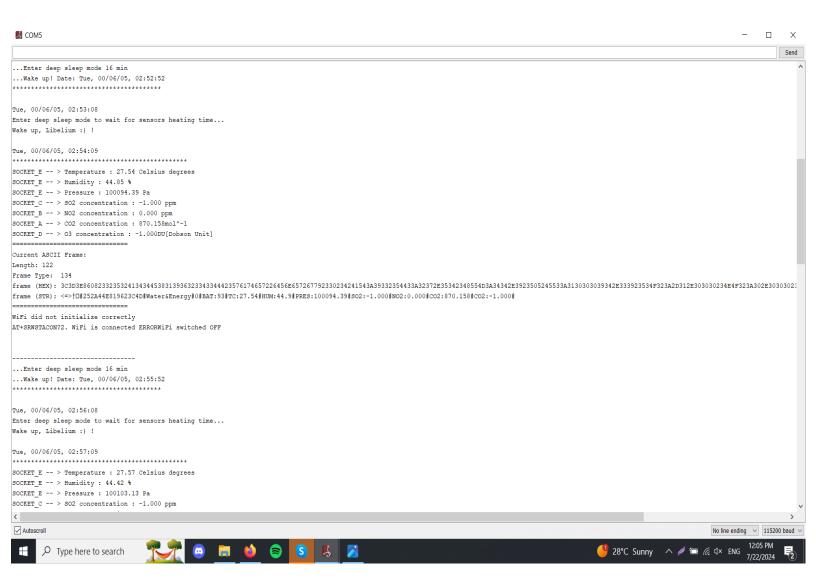


Figure 4&5. Output of Waspmote code

### The team that made this project possible consists of the next ultra-juniors:

- Văduva Matias
- Catrina Alexandra
- Gușe Ovidiu
- Mustață Carmen



### THANK YOU FOR YOUR TIME!