## Airlab micro-sensors

Challenge 2023

Use for which sensor performance was best: Outdoor Air Monitoring



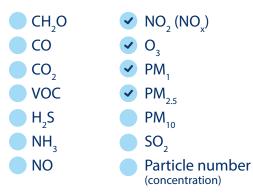


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#### Jury's opinion

The WTI provided an overall very good performance in terms of accuracy in the current edition, with excellent quality for NO<sub>2</sub>, achieving the best performance for the French deployment. Its PM1, PM2.5 and O<sub>3</sub> measurements has also very good performance. It provides an adequate list of targeted pollutants. However, the addition of PM10 would also be welcomed for monitoring applications. It has complete data recovery options, real-time notifications, and is relatively easy to setup. As such, it scores very well in terms of utility and fares also well for usability. It is penalized, however, for its significant size and its cost, which remains relatively high compared to other competitors.

#### Measured pollutants

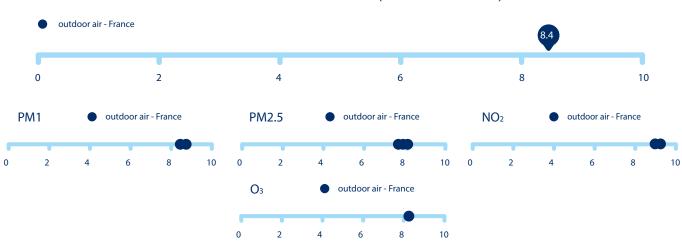


#### Other measurements

- Temperature
- Humidity
- Odours
- GPS
- Atmospheric pressure
- Luminosity
- Acoustic comfort
- Anemometer

Data storage location: CLOUD (GERMANY, FINLAND) The hosting provider is a German company.

### **Detailed report**

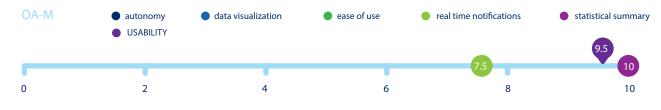


• ACCURACY on 3 microsensors based on the SET method (Fishbain et al. 2017)

• UTILITY the capacity of a sensor system to provide the essential functionalities for accomplishing the application objectives



• USABILITY the ability of the candidate solution to provide the conditions for its users to perform the tasks safely, effectively, and efficiently while enjoying the experience



• FORM FACTOR relates to how much of a physical burden the device represents for operations like transportation or installation



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