Magnasci SMOGGIE

Use for which sensor performance was best: OA-A, OA-M

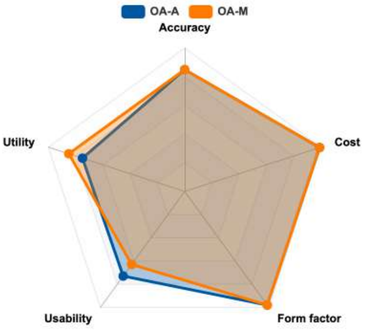
★★★★☆

Jury's opinion

The SMOGGIE is a very small and very lightweight and sensor system targetting particle measurements for outdoor applications. It provides excellent accuracy for PM2.5, very good for PM1, and good for PM10. Its utility and usability, although overall adequate, are penalized by the absence of a long-range communication channel and the current unavailability of a real-time notifications service. Its overall performance, an particularly its form factor and low cost, make it an excellent choice for awareness raising applications. Note: At the time of the evaluation, the deployment of real-time notifications was announced by the manufacturer for the near future. Its eventual roll-out would improve the usability of the system.



Evaluation



Measured pollutants

- ○ CH_2O
- ○ NO_2 (NO_x)
- ○ CO
- ○ O_3
- ○ CO_2
- ✓ PM_1
- ○ VOC
- ✓ $PM_{2.5}$
- ○ H_2S
- ✓ PM_{10}
- ○ NH_3
- ○ SO_2
- ○ NO
- ○ Particle number (concentration)

Other measurements

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

Data storage location: EU and US

Entreprise/Company

Magnasci SRL

2015

Romania, Dumbravita
307160, Jud.Timis,
Str.Cocorului 23

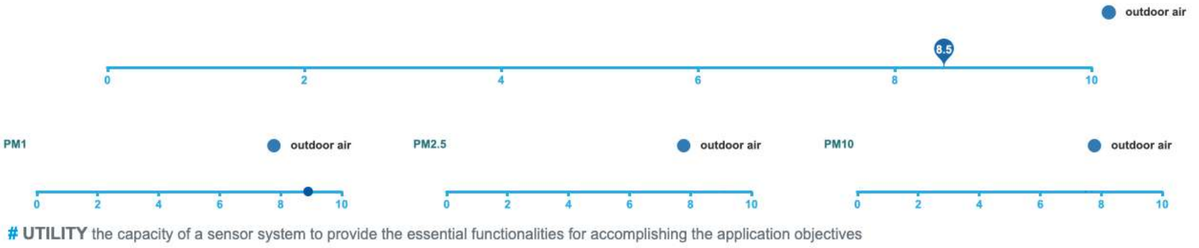
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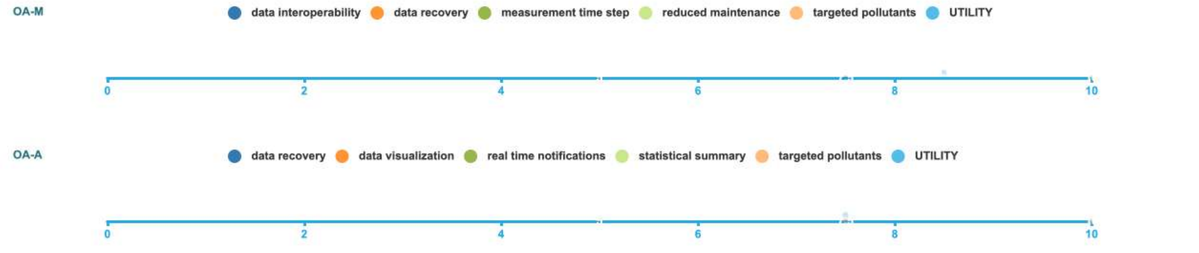
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Detailed report

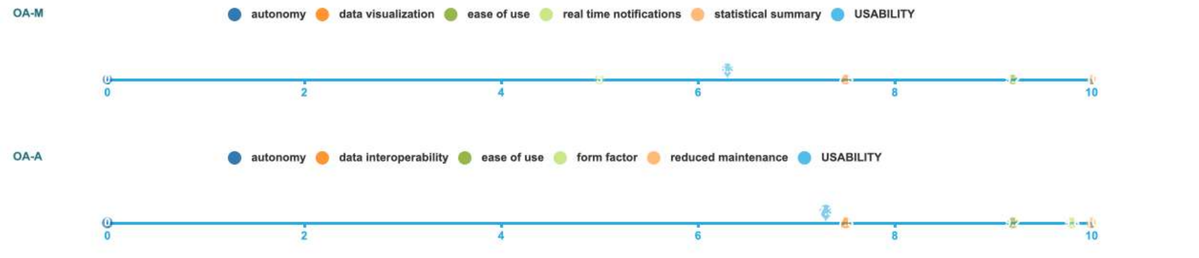
 # ACCURACY on 3 microsensors based on the SET method (Fishbain et al. 2017)



 # 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



 # COST investment and running costs over 3 years

