Magnasci uRADMonitor CITY

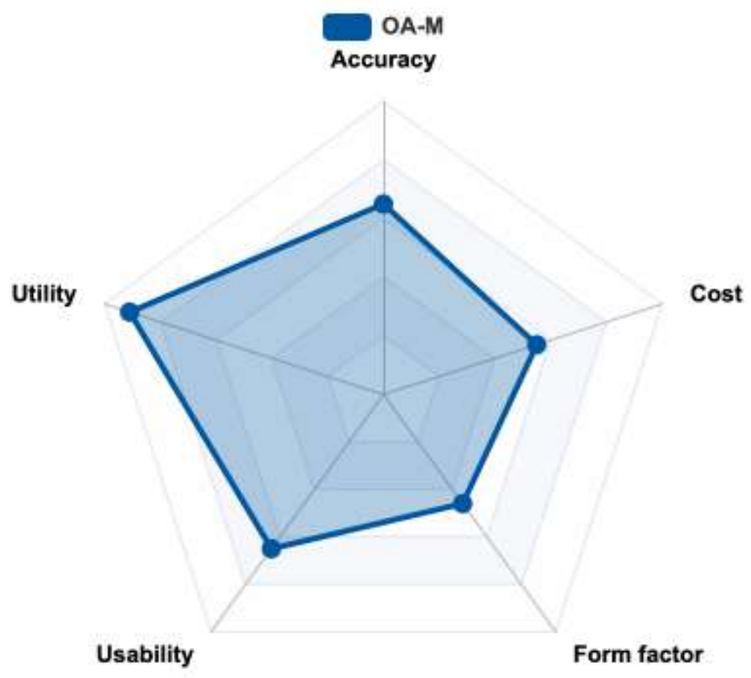
Use for which sensor performance was best: OA-M

Jury's opinion

The uRADMonitor CITY is an easy to deploy, low-maintenance sensor system providing measurements for a comprehensive list of pollutants and targeting outdoor monitoring applications. It scores very well in terms of utility for this type of application, but is held back on the usability scale because of the not yet available real-time notifications services. Although not low-cost, its price remains competitive for the targeted application. The most important weak point lies in its accuracy performance. The device provides very good data quality for PM2.5, good quality for PM1, but average quality for PM10 and only poor and very poor data quality for NO2 and O3, respectively. 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

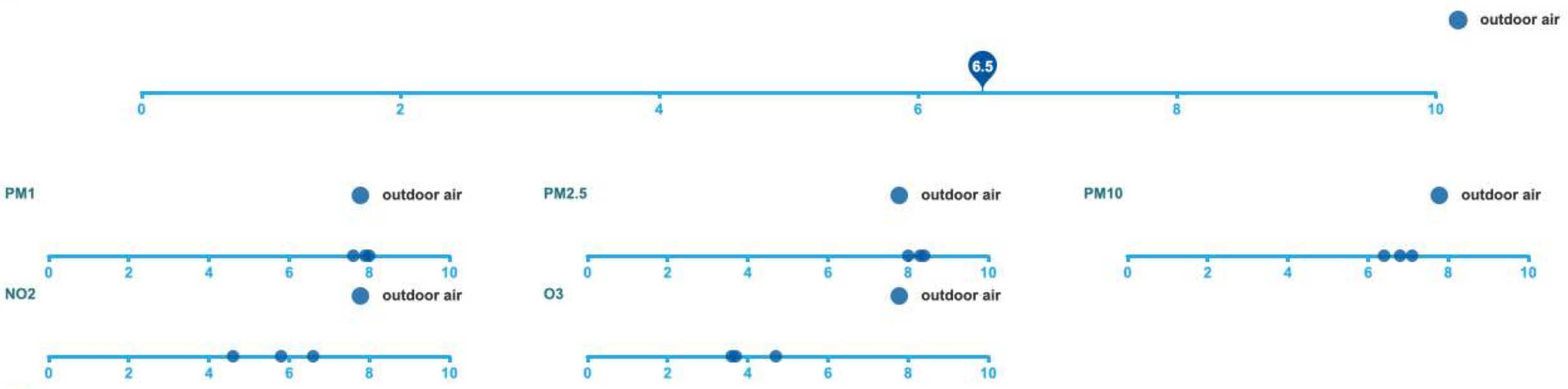
- ☑ Temperature
- ☑ Atmospheric pressure
- ☑ Humidity
- ☐ Luminosity
- ☐ Odours
- ☐ Acoustic comfort
- ☑ GPS
- ☐ Anemometer

Data storage location: EU and US

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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

