



**LOAC** (Light Optical Aerosol Counter) is an aerosol counter providing a particle concentration and an average of the aerosol optical nature. This miniaturized and versatile instrument works with a laser diode and 2 detectors placed at 12° and 60° respectively, thus offering a high level of sensitivity.

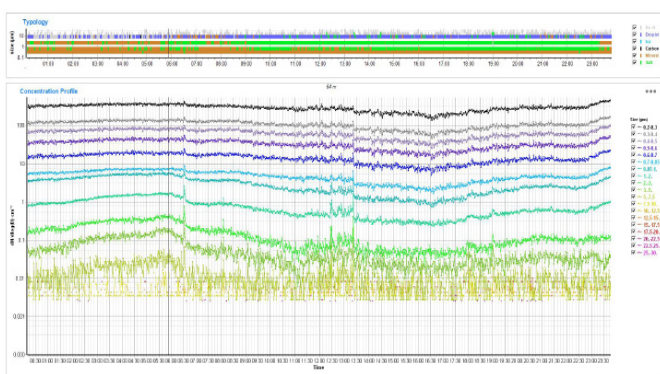
The **LOAC** measures the particle concentration in 19 size classes from 0.2 to 30 µm in diameter, including 10 size classes between 0.2 and 5 µm. In addition, its metal housing gives it great resistance to shock and extreme climate conditions.

The **LOAC Recorder** is the surface version of the **LOAC**, the data is collected and stored on a USB flash. Real time data transmission via ethernet connection is also possible (refreshed every 10 minutes).

The **LOAC Recorder** is used to document the aerosols in the atmospheric boundary layer (urban pollution, indoor air, geophysical phenomena such as sand transport, volcanic eruptions...)



The **LOAC Recorder** can be powered from mains or via an internal rechargeable battery. It is modular and can be used on the ground, on the roof of a building, in a tunnel or mounted on a mast.



MECHANICAL PROPERTY	
Dimensions	360 x 200 x 120 mm
Weight	3.3kg (battery included)

TECHNICAL SPECIFICATIONS	
Recording Mode	- Optional RJ45 connection - USB Storage
GPS	Position
TimeStamp	RTC and NTP synchronization

## Bibliography of reference

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