LOAC Recorder

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.

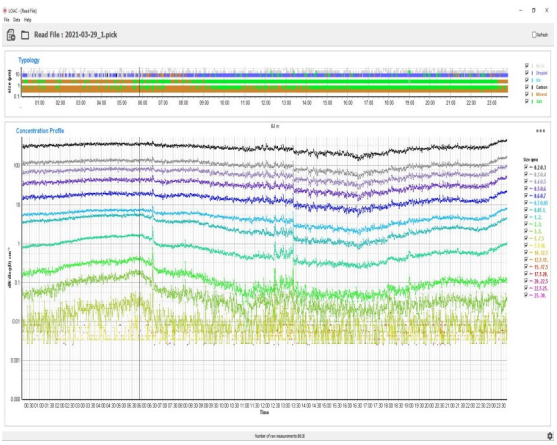
In addition, its metal housing gives it great resistance to shock and extreme climate conditions.

- 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 Recoder 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, mounted on a mast or under a captive balloon.

LOAC Software



Dimensions :

- L : 360 mm
- l : 200 mm
- h : 120 mm
- Weight: 3.3 kg (battery include)

Recording mode:

- Optional RJ45 connection
- USB storage

GPS: Position

Timestamp: RTC and NTP synchronization

Bibliography of reference:

- Renard et al. 2016 (1) doi:10.5194/amt-9-1721-2016 (2) doi:10.5194/amt-9-3673-2016
- Lurton et al. 2014 : doi:10.5194/amt-7-931-2014
- All bibliography of measurement campaigns on Meteomodem.com

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