



**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.

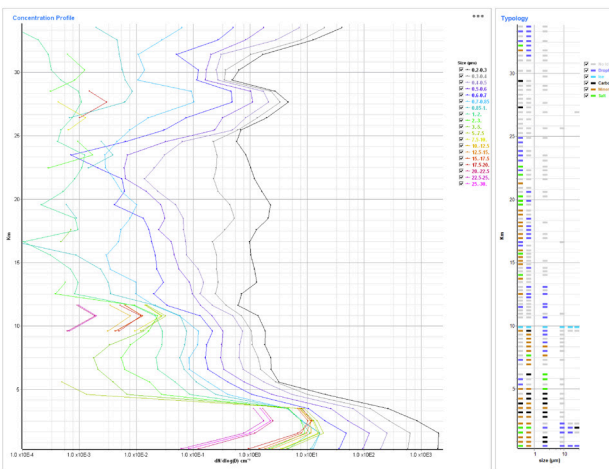
The **LOAC** measures the particle concentration in 19 size classes from 0.2 to 30 µm in diameter, including 10 size classes between 0.2 and 5 µm.

The **LOAC Telemetry** is the radiosounding version of the LOAC (vertical profile up to 30 km, temperature, humidity, speed and wind direction) allowing the transmission of data in real time (refreshed every 10 minutes).

The **LOAC Telemetry** is adapted to the constraints of atmospheric balloon measurements: it supports temperature variations and maintains a constant airflow regardless of altitude.



The **LOAC Telemetry** is powered by 2 alkaline batteries. It can be used under a captive balloon or weather balloon.



MECHANICAL PROPERTY	
Dimensions	275 x 180 x 150 mm
Weight	1 kg (battery included)

TECHNICAL SPECIFICATIONS	
Recording Mode	Radio transmission (M10). Requires SR10 ground data acquisition station.
GPS	Position and timestamp

## Bibliography of reference

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