

# Measuring nanoparticles made easy

## Partector 2



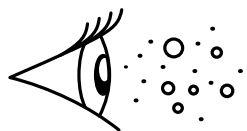
The world's smallest  
multi-metric  
nanoparticle detector

naneos particle solutions gmbh  
info@naneos.ch  
[www.naneos.ch](http://www.naneos.ch)



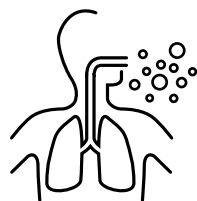
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# Good reasons to choose a Partector 2



## Detect ultrafine particles

Many particle detectors work with optical detection and cannot detect particles smaller than about 300 nm. Our devices can measure down to a size of ~10 nm.



## Multiple metrics

Ultrafine particles have a very low mass. That's why naneos sensors output health-relevant metrics, such as lung-deposited surface area (LDSA), particle count and particle diameter.



## Easy to use

Our instruments are very easy to use and very small, lightweight and practical.

## Further features

The Partector 2 provides a wide concentration range, is battery-powered, requires no working fluids and works in any orientation.

# The Partector 2 – designed for ...

## Personal exposure monitoring

The partector measures all nanoparticles – so you can use it to measure exposure to engineered nanoparticles, environmental tobacco smoke, welding fumes, traffic-related nanoparticles or anything else. The partector is ideally suited for occupational health and safety studies.

## Workplace monitoring

The partector can be used to monitor nanoparticle levels in a laboratory or nanoparticle production facility 24/7. It can sound an alarm and, with its data log, you can quickly check when high concentrations occurred.

## Environmental monitoring

Small, light and cheap – the partector is the ideal instrument for studies where nanoparticle concentrations need to be measured with high spatial resolution. By using multiple instruments simultaneously, you can measure transport phenomena and particle concentration distributions. By combining partector data with GPS data, you can easily visualize your measurement in Google Earth.

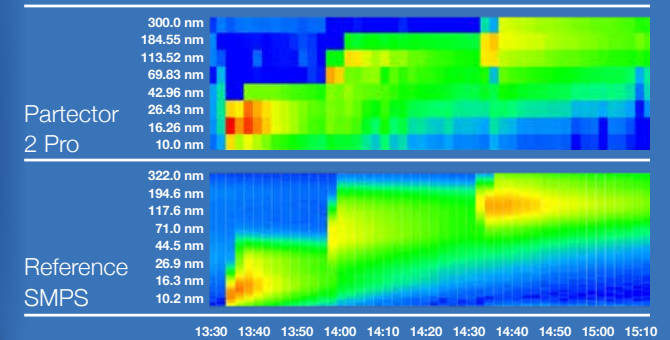
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# Product line and upgrade path



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## Partector 2 Light

Entry-level, comparatively cheap nanoparticle detector for measuring LDSA only.

Detect the presence of ultrafine nanoparticles or check that air filters and protection systems in your (work) environment are working correctly.

## Partector 2

Multi-metric nanoparticle detector.

Measure particle number, LDSA, surface area, particle mass or mean particle size with high time resolution to make a detailed analysis of an aerosol of interest.

## Partector 2 Pro

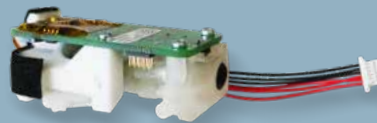
With an additional eight-channel size distribution of your ultrafine aerosol concentration.

**Upgrade path:** products can be upgraded to a higher version at a later date.

# Accessories and options

## Partector 2 OEM

Designed for integration into proprietary systems or measurement stations. Comes without an internal pump but with a defined aerosol outlet and a critical orifice. Provides wake-up on power and serial interface for data streaming.



## Silent pump

We can provide a silent pump for noise-critical applications (pump sound in 20 kHz range).



## Measurement data cloud

Our devices can stream data to a measurement data cloud to enable easy real-time data analysis and remote sensing.



## Mobile app

Read your measurement data while the device is not immediately accessible (e.g. in a backpack), and stream data to the measurement data cloud.