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Fidas[®] Frog

Fine Dust Monitoring System



 **PALAS[®]**



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less is not enough



Fidas[®] Frog

Fine Dust Monitoring System

Breaking new ground with Fidas[®] Frog. This fine dust aerosol spectrometer is small, light and precise. The battery life is sufficient for a whole working day – for example for measuring the fine dust load at an office workstation, in the workshop or in the lab. Operation via the wireless touch panel is intuitive and easy.

- Battery life of 8 hours
- Simultaneous measurement of PM₁, PM_{2.5}, PM₄, PM₁₀ and particle size distributions
- Also measures reliably at higher concentrations
- Simple calibration by the customer on site

Light. Small. Standalone device.

Versatile

Fidas® Frog is smaller than a shoe box and uses WLAN to communicate with its operator via the operating panel. The wireless operating panel allows users to perform measurements at a great distance from the particle source. Thanks to the impressive battery life of 8 hours, you can take measurements throughout an entire working day – with a time resolution of individual seconds.



2100g



24/15/10 cm



8 h



Wifi



High time
resolution



less flexibility is not enough



less functionality is not enough

Simple to evaluate

For transparency in fine dust matters

The Fidas® Frog user interface can be used to display all measurement series and compare them with each another. Fast printouts of reports are effortlessly possible. With the optional integrated camera, images of the measurement set-up can be conveniently assigned to the data record and the measurement report. A warning message is output if individual limits or legal thresholds are exceeded.



Alert



Pre-
configured



Camera



Report

Precise. Sound.

Measurements up to 40 μm

Fidas® Frog is based on the sensor and measurement algorithm from the tried and tested Fidas® 200, which is certified by TÜV Rheinland. This is how we ensure exact measurements for the PM_{1} , $\text{PM}_{2.5}$, PM_{4} and PM_{10} particle measurement ranges. All of the standard particle size distributions are displayed.



Pollen

PM_{1}

less than 1 μm

$\text{PM}_{2.5}$

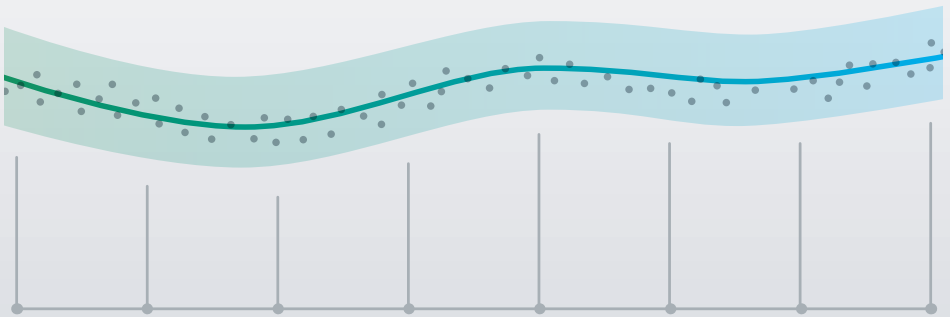
less than 2.5 μm

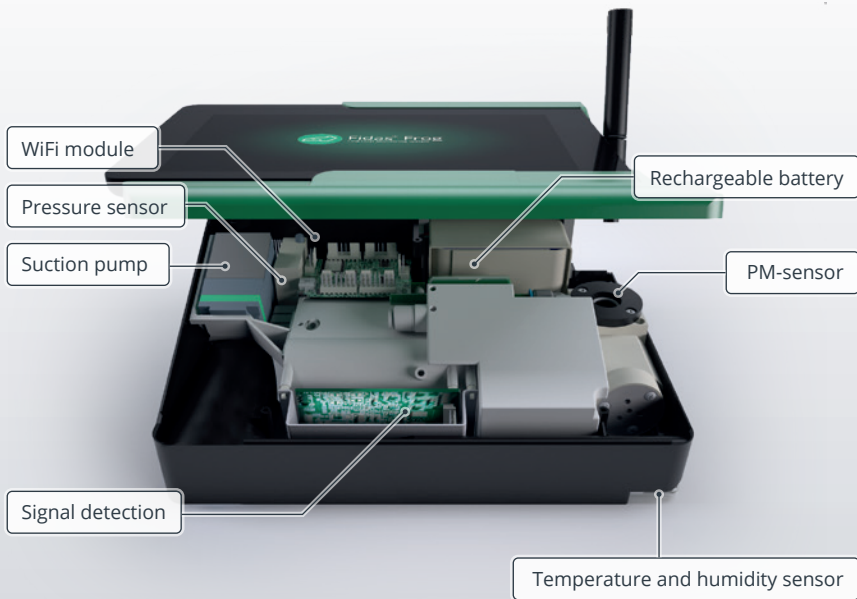
PM_{10}

less than 10 μm



Soot
particle





less innovation is not enough

Technology

The best compressed

We are also breaking new ground in terms of our manufacturing processes. The housing and various components are generated with 3D printing techniques. The sensor has been further refined and is based on the sensor of the certified Fidas® 200 S system. It is made from lightweight plastic. Fidas® Frog uses an optoelectronic detector, which measures even more accurately and with even higher resolution. At the same time, it is smaller than its predecessor. As well as wireless communication, IoT also comes as standard with Fidas® Frog.

Our core competencies

- Filter test systems*
- Aerosol spectrometer systems*
- Fine dust monitoring systems
- Nanoparticle measurement technology
- Particle generation systems*
- Dilution systems*
- Clean room particle technology
- Special developments
- Calibration systems*
- Services
- Training courses and seminars

Contact

Do you still have any questions on technology, on availability or on price? We would be pleased to address them.

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* Palas® is the market leader in these product groups.



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