



EXHALATION MEASURING DEVICE FOR AEROSOL PARTICLES

Detect Superemitters | Reliable.

Made in Germany.



How could **Resp-Aer-Meter** help you right now?

Resp-Aer-Meter is a measuring device for the immediate detection of particle concentration in exhaled air. The innovative, universally applicable measuring instrument determines the number and size of aerosol particles quickly and accurately. By increased numbers of exhaled aerosol particles, so-called superspreaders or superemitters can be identified.

Superspreaders or superemitters are persons who have a particularly high number of pathogens and are therefore considered particularly infectious. In order to detect them and to initiate appropriate security measures, Resp-Aer-Meter supports you.

Application examples

Resp-Aer-Meter is particularly suitable for use in research **institutions and laboratories.**

However, the device can also make a decisive contribution in the **entire public sector** to protect people in heavily frequented locations from possible infection risks emanating from other people: for example, at airports and at events such as trade fairs or concerts.

Application examples



RESEARCH AND DEVELOPMENT



LABORATORIES



AIRPORTS



SHOPPING CENTERS



CONCERTS

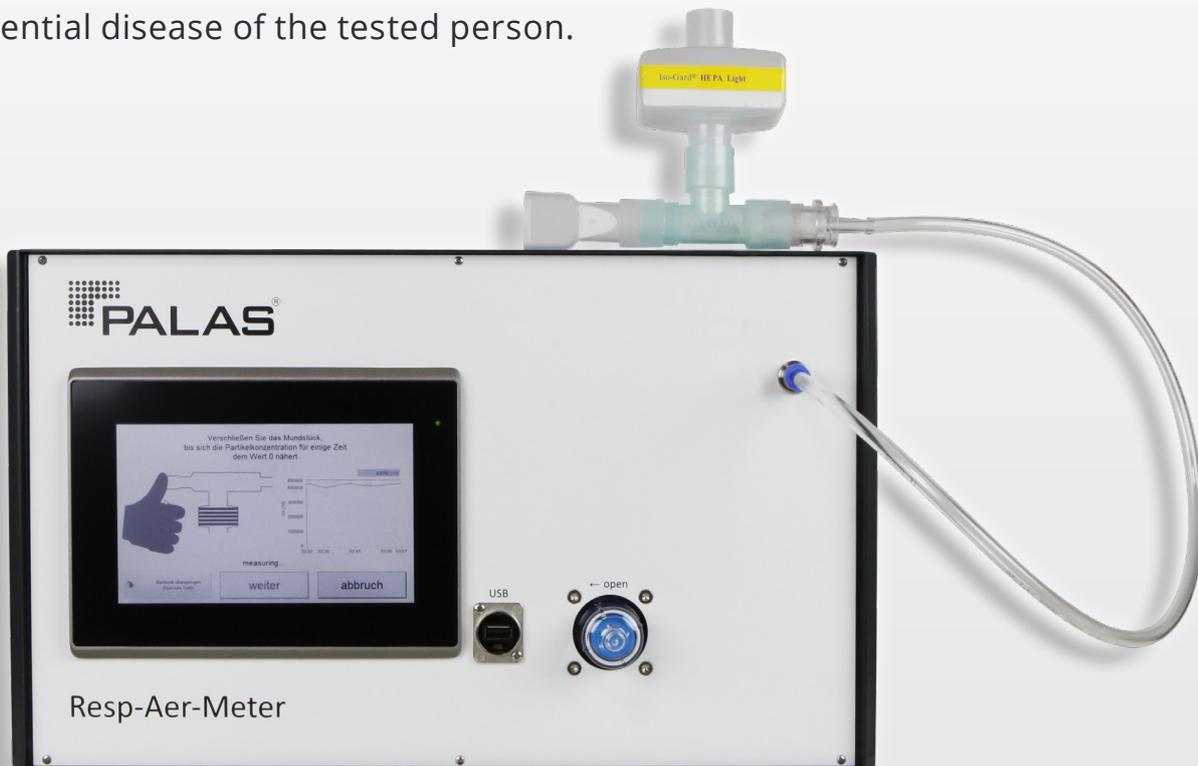


EXHIBITIONS

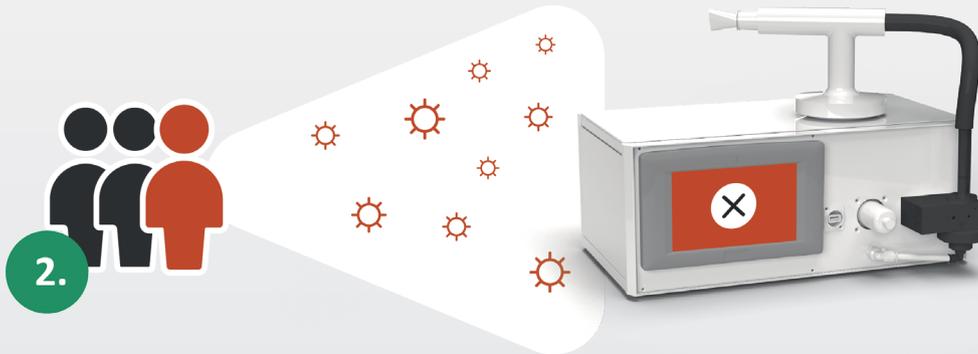
How does it work?

For the measurement, persons to be tested breathe into the exhalation measuring device – the evaluation takes place immediately: the device shows **how many particles in which size** are present in the exhaled air. The virus particle size serves as an indicator for a potential disease of the tested person.

With Resp-Aer-Meter, we are thus making a relevant contribution to deepening the understanding of transmission and spread mechanisms in current research topics.



Principle of operation



Why is it so effective?

With Resp-Aer-Meter we set standards in the **development and production of aerosol measuring devices for breathing air!**

The latest technologies, combined with our extensive expertise in the field of aerosols, make this exhalation device particularly reliable and accurate.

Renowned scientists were involved in the development, including Dr. Gerhard Scheuch, former president of the International Society for Aerosols in Medicine.

In short, Resp-Aer-Meter provides:

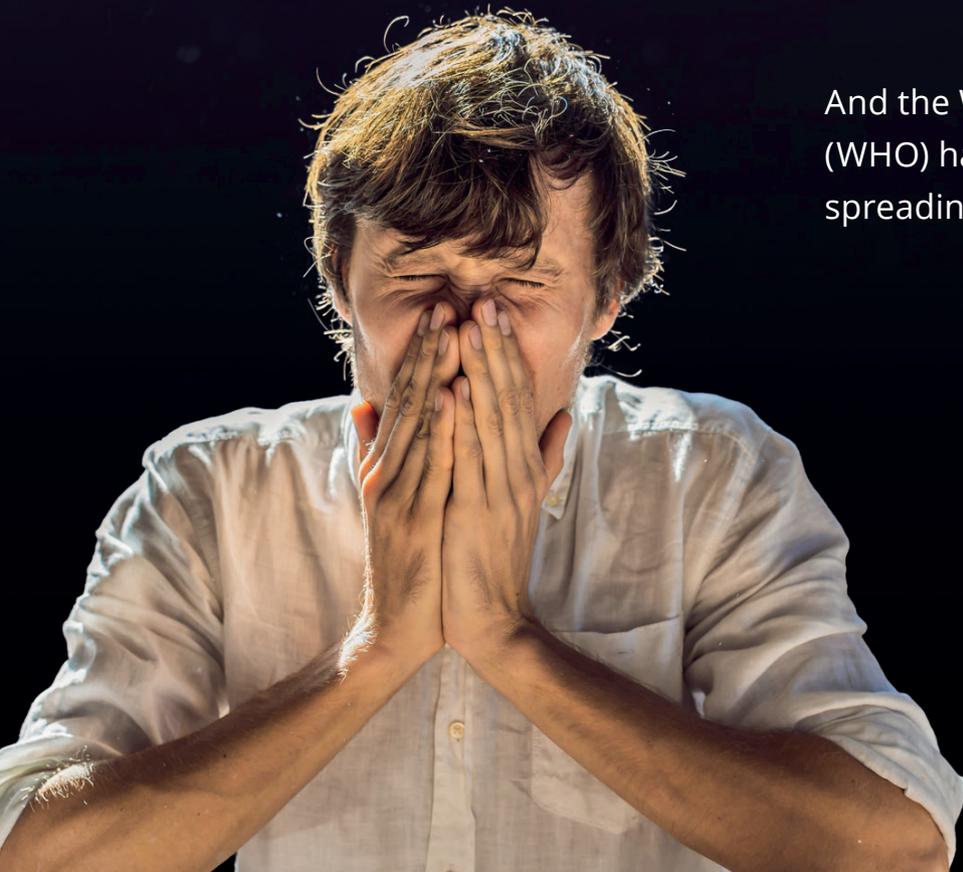
- High measuring accuracy due to state-of-the-art technology and many years of experience in the field of aerosol measuring technology
- Indication of so-called superemitters through reliable determination of the number and size of aerosol particles in the air we breathe
- Easy handling and fast, yet reliable measurement results

What role do aerosols play in the transmission of diseases?

Aerosols are a mixture of a gas and solid and/or liquid components. While the larger exhaled droplets sink to the ground faster, smaller particles circulate longer in the air.

In its profile on coronavirus disease, the Robert Koch Institute describes the role played by aerosols when speaking, coughing or sneezing: for example, when many people gather in insufficiently ventilated indoor spaces.

And the World Health Organization (WHO) has already recognized the risk of spreading SARS-CoV-2 via aerosols.



go green
to breathe clean.



Palas® is a leading developer and manufacturer of highprecision instruments for the generation, measurement and characterization of particles in air.

With more than 30 active patents, Palas® develops technologically leading and certified fine dust and nanoparticle analyzers, aerosol spectrometers, generators and sensors as well as related systems and software solutions. Palas® was founded in 1983 and employs more than 70 people.

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