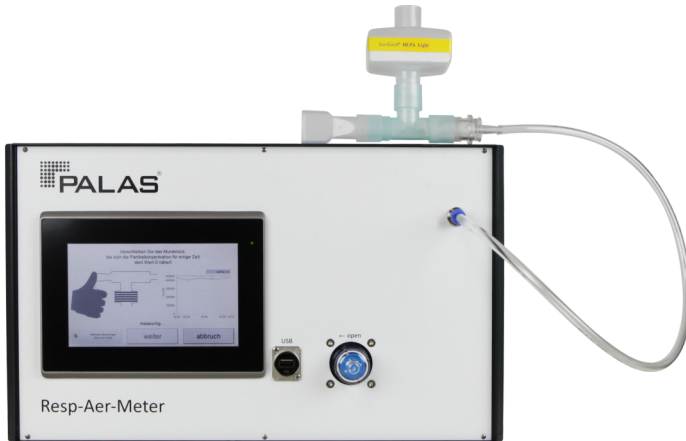


# RESP-AER-METER INFECTION GUARD



Superspreaders or superemitters are people who have a particularly high number of pathogens in the air they breathe. They are therefore considered to be particularly infectious.

The Resp-Aer-Meter Infection Guard helps to identify respective persons and corresponding infection risks among athletes. This allows to initiate appropriate safety measures.

## OPERATION PRINCIPLE

### IDENTIFY POTENTIAL SUPERSPREADERS

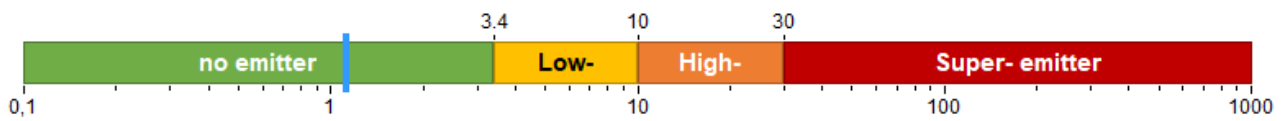
The evaluation takes place immediately, with the device determining how many particles of what size are in the breath. This serves as an indicator of a possible disease. If a specific value is exceeded, the tested person is considered infectious and can therefore be isolated from the group before infecting others.

## Resp-Aer-Meter result standard test

Aerosol-Emitting-Factor: **1,13**

exhaled aerosols: **282 P/L**

below 0.2  $\mu\text{m}$ : **99 P/L**



distribution

Cn

Fig. 1: Results are shown on the display

## BENEFITS

- So-called "superemitters" can be identified in 30s thanks to a high number of particles
- Fast differentiation between infectious and less infectious Covid-19 carriers
- Measurement of the aerosol concentration and aerosol size in exhaled air
- Detection of particles from 145 nm to 10  $\mu\text{m}$
- Highest resolution, especially in the virus size range from approx. 145 nm to 1  $\mu\text{m}$
- Immediate evaluation and documentation of the measurement result

## DATASHEET

Measuring principle	Optical light-scattering
Measurement range (number $C_N$ )	0 – 20,000 particles/cm <sup>3</sup>
Measurement range (size)	0.15 – 10 $\mu\text{m}$
Volume flow	9.5 l/min
User interface	Touchscreen, 800 • 480 pixel, 7" (17.78 cm)
Data acquisition	Digital, 20 MHz processor, 256 raw data channels
Power consumption	Approx. 200 W

## APPLICATIONS

- Detection of potential superspreaders, for example in professional team training or rehearsals



Mehr Informationen:  
<https://www.palas.de/product/Resp-Aer-Meter-Infection-Guard>