

# 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.

## 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

## APPLICATIONS

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

## 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                                    |