

NanoTracer XP

FOR ULTRAFINE AND NANOSIZED PARTICLE MONITORING

Airborne ultra-fine and nanoparticles pose a recognized threat to hundreds of millions of people throughout the world. When inhaled they are deposited deep in the lungs, where they can lead to respiratory problems and other illnesses. Present in everything from vehicle exhausts, chemicals and tobacco smoke to emissions from gas cookers and industrial processes like nanoparticle production and welding, these invisible particles can have a serious impact on our health and well-being.

Simple, handy yet accurate real-time monitoring The Oxility NanoTracer is a hand-held monitoring device that enables real-time measurement of the total number and average diameter of airborne ultrafine particles (UFP) and nanosized particles

Accurate and thorough

- Detects ultra-fine airborne particles (10 to 300 nm diameter)
- Carries out continuous, real-time measurement
- Measures particle concentration, average particle diameter and LDSA
- Independently-validated accuracy by the German "Institut für Gefahrstoff-Forschung"



Convenient and easy

- Handheld, compact and portable
- Lightweight
- Silent operation
- Large display with real-time measurement data displayed
- Simple operation
- No liquids or other consumables required
- Low maintenance requirements for the user

NanoReporter software

Gives you:

- Powerful analysis, comparison and archiving of measurement data
- Real-time display of measurements from up to 4 NanoTracers
- One-click report generation
- Export of data for further post-processing



NanoTracer XP Datasheet

Operating modes	Fast mode: real-time measurement of particle concentration and Lung Deposited Surface Area (LDSA) Advanced mode: real time measurement of particle concentration, average particles size and Lung Deposited Surface Area (LDSA)
Measurement units	Particle concentration: particles/cm ³ Average particle diameter: nm Lung Deposited Surface Area: µm ² /cm ³
Concentration range	0 – 10 ⁶ ultra-fine particles/cm ³
Particle diameter range	10 – 300 nm (equivalent to particle average diameter between 20 – 120 nm diameter)
Time resolution	Fast mode: adjustable by user (min. 1 sec, default 3 sec) Advanced mode: 10 sec
Data presentation	Via display on the NanoTracer and on a PC running NanoReporter software (provided)
Data storage	24 MB internal memory, enough for more than 10 weeks of continuous monitoring data at the fastest sample rate
Communication	USB interface (cable provided)
Measurement technology	Diffusion charging
Operating conditions	0 – 35°C, with optimal performance at room temperature 0 – 90% relative humidity (non-condensing)
Power supply	Internal lithium-ion battery (rechargeable, min. 8 hours endurance) 24 V DC mains adapter
Dimensions (H x W)	16.5 x 9.5 cm
Weight	0.75 kg
Airflow	0.3 - 0.4 l/min
Support and maintenance	Yearly maintenance and calibration services available
Certification	CE

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