

AeroTrak 9000

SPECIFICATIONS

Nanoparticle aerosol monitor AeroTrak™ 9000 TSI is used to monitor the concentration of particles in the environment. The device indicates the surface area of nanoparticle aerosols which are deposited in lungs and air passages of the respiratory tract. Deposition in the alveolar (A) and tracheobronchial (TB) part of the lung regions corresponds to the deposition criteria according to the ICRP model (Human Respiratory Tract Model for Radiological Protection).



MEASURING METHODS

E.g. ČSN EN 481 (833621) Workplace atmosphere. Size fraction definition for measurement of airborne dust. ÚNMZ, 1994; Government regulation No. 361/2007 Coll., which lays down the conditions for health protection at work, as amended.

OVERVIEW OF MEASURABLE PARAMETERS / OUTPUT INFORMATION

Active surface of nanoparticles in an aerosol of size 1 nm - 1000 nm.

Range: concentration range: TB: (1 to 2,500) $\mu\text{m}^2/\text{cm}^3$; A: (1 to 10,000) $\mu\text{m}^2/\text{cm}^3$

The possibility of saving the measured data is from 1 s; the device displays data in real time, 8-hour average concentrations, minima, maxima of measured values.

TYPES OF SAMPLES SUITABLE FOR ANALYSIS / MEASUREMENT CONDITIONS

Air for monitoring exposure to small particles (up to 1 μm) up to concentration for TB 2,500 $\mu\text{m}^2/\text{cm}^3$ and for A 10,000 $\mu\text{m}^2/\text{cm}^3$.