

Optical Spectrometer Model 3330

SPECIFICATIONS

The optical spectrometer (OPS) allows fast and accurate measurement of particle concentration and particle size distribution. The OPS measures particles in the range from 0,3 to 10 μm in 16 user adjustable channels. The measured particles can also be collected on a built-in filter for further analysis.



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

Number of particles in individual size channels [particles.cm^{-3}]. Concentration range: 1-3 000 particles.cm^{-3} ; size range: 0,3 - 10 μm . Output is the particle size distribution - number of particles in individual size channels [particles.cm^{-3}]; or surface, volume or weight can be selected as the output unit; the logging interval can be set from 1 s. The resulting values can be displayed as: concentration (dW); dW / dlogDp; % concentration; cumulative concentration; cumulative % concentration.

TYPES OF SAMPLES SUITABLE FOR ANALYSIS / MEASUREMENT CONDITIONS

The instrument can be used for general applicable research as well as for measuring (monitoring) aerosol of indoor and outdoor air, monitoring for occupational hygiene - measuring occupational exposure; for monitoring and controlling emissions, e.g. from combustion.