

# AEROSOL SENSOR WELAS® 2300



The model 2300 aerosol sensors are equipped with a very big measurement volume and are used for coincidence-free measurement with a maximum number concentrations up to 40,000 particles/cm<sup>3</sup>. These sensors are therefore suitable for indoor air measurements and for filter testing in accordance with EN779. Measuring range: 0.2 – 10 µm / 0.3 – 17 µm / 0.6 – 40 µm / 2 – 100 µm.

## BENEFITS

- The sensors are easily replaceable
- World's smallest and most robust sensors in the 2000 series
- Excellent agreement of all sensors regarding particle size and particle concentration
- Minimization of particle losses in long sampling lines by the easy installation of the sensor directly at the sampling point
- Sensors for in-situ measurements
- Measurement in explosive environments in the 2000 series (without heating)
- Easy to clean
- Simple operation
- Reliable function
- Low maintenance
- Reduces your operating costs

## APPLICATIONS

- Determination of the separation efficiency of car interior filters, engine air filters, room air filters, compressed air filters, vacuum cleaner filters, cleanable filters, electrostatic precipitators, oil separators, cooling lubricant separators, wet scrubbers, cyclones, and other separators
- Isothermal and isobaric particle size and quantitative determination, for instance, in the automobile, chemical, pharmaceutical, and food industries
- Analysis of fast, transient processes
- Inspection of smoke detectors
- Particle formation for cloud formation

## MODEL VARIATIONS

... model available in additional variations

## DATASHEET

Measurement (number $C_N$ )	range	0 – 4 • 10 <sup>4</sup> particles/cm <sup>3</sup>	Measurement (size)	range	0.2 – 105 µm (4 measurement ranges)
Volume flow		5 l/min (others on demand)	Thermodynamic conditions	con-	+10 – +40 °C, -100 – +50 mbarg
Light source		Xenon arc lamp 35 W	Dimensions		50 • 250 • 100 mm (H • W • D)
Weight		Approx. 2.8 kg			