# AEROSOL SENSOR WELAS® 2500




The model 2500 aerosol sensors are equipped with a very big measurement volume and are used for coincidence-free measurement with a maximum number concentrations up to 4,000 particles/cm$^3$. This aerosol sensor allows statistically reliable measurements in low raw gas concentrations down to clean room class 100,000 and for filter testing according to ASHRAE 52.2. Measuring range: 0.3 – 17 $\mu$m / 0.6 – 40 $\mu$m / 2 – 105 $\mu$m.

## BENEFITS

- The sensors are easily replaceable
- World's smallest and most robust sensors in the 2000 series
- Very good agreement of all sensors regarding particle size and particle concentration
- Minimization of particle losses in long sampling lines by easy installation of the sensor directly at the sampling point
- Sensors for in-situ measurements
- Measurement in explosive environments in 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 range (number $C_N$) | 0 – 4 • $10^3$ particles/$cm^3$ |
| Measurement range (size) | 0.3 – 105 $\mu$m (3 measurement ranges) |
| Volume flow | 5 l/min (others on demand) |
| Thermodynamic conditions | +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 |

## NORMS AND CERTIFICATES

ASHRAE 52.2