AEROSOL SENSOR WELAS® 2100

The model 2100 aerosol sensors are equipped with a small measurement volume and are used for coincidence-free measurement with a maximum number concentrations of up to 500,000 particles/cm^3. Measuring range: 0.2 – 10 μm / 0.3 – 17 μm / 0.6 – 40 μm.

BENEFITS

- The sensors are easy to replace
- The world's smallest and most robust sensors in the 2000 series
- Very good agreement of all sensors in terms of particle size and concentration
- Minimization of particle losses in long sampling lines by simply installing the sensor directly at the sampling location
- Sensors for in-situ measurements
- Measurement in potentially explosive environments with the 2000 series (without heating)
- Easy to clean
- Simple operation
- Reliable function
- Low maintenance
- Reduces your operating expenses

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

Measurement range (number C_N)	0 – 5 • 10^5 particles/cm^3
Measurement range (size)	0.2 – 40 μm (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