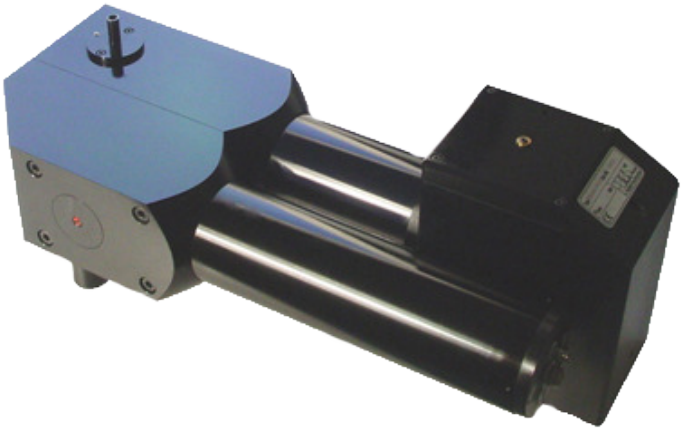
Aerosol Sensor welas® 1200



The model 1200 aerosol sensors are equipped with a small measurement volume and are used for coincidence-free measurement with a maximum number of concentrations of up to 50,000 particles/cm^3. Measuring range: 0.12 – 3.5 μm / 0.2 – 10 μm / 0.3 – 17 μm / 0.6 – 40 μm.

Benefits

- Widest measuring range of 120 nm to 40 μm (4 measuring ranges selectable in one device)
- Calibration curves for different refractive indices
- Widest concentration range of 0 particle/cm^3 up to 5 • 10^4 particles/cm^3
- Very high and reproducible counting efficiency rate starting at 0.12 μm
- High temporal resolution down to 10 ms
- Extensive PDControl and FTControl software
- Strong, powerful external suction pump ASP 1000
- Calibration, cleaning and lamp replacement can all be performed independently by the customer
- Simple operation
- Low maintenance
- Reliable function
- 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

DATASHEET

Measurement range (number C_N)	0 – 5 • 10^4 particles/cm^3	Measurement range (size)	0.12 – 40 μm (4 measurement ranges)
Volume flow	1.6 l/min, 5 l/min (others on demand)	Thermodynamic conditions	+10 – +40 °C, -100 – +50 mbarg
Light source	Xenon high pressure lamp 75 W	Power supply	115 – 230 V, 50/60 Hz
Cooling	Air cooling	Dimensions	200 • 530 • 530 mm (H • W • D)
Weight	Approx. 19 kg		