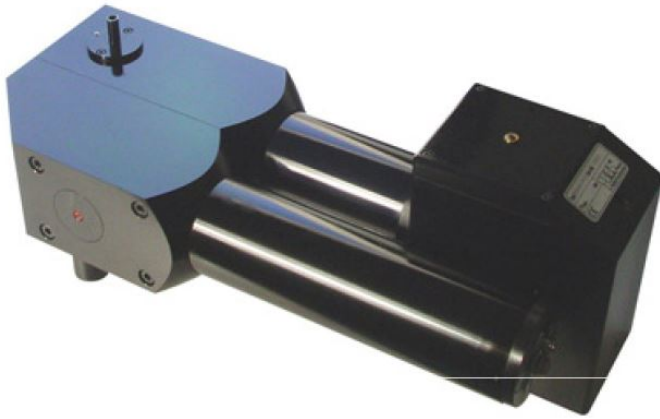


# AEROSOL SENSOR WELAS<sup>®</sup> 1200 P



Depending on the aerosol composition to be measured, i.e., the carrier gas component and the particle material, pressure changes in the carrier gas can significantly influence the particle size distribution, e.g., due to condensation or evaporation.

For this reason, the aerosol sensor welas<sup>®</sup> 1100 P and welas<sup>®</sup> 1200 P are equipped with a pressure-tight cuvette to ensure isobaric and isothermal sampling down to the sensor's measurement volume.

The cuvettes are made of relaxed aluminum (black) by default. If the sensor is used in aggressive and corrosive aerosols, the cuvette can be made of stainless steel or other special materials, such as Hastelloy.

Sealed additional disks prevent aerosol from the cuvette from escaping into the surroundings. This even offers an advantage in measuring toxic substances under ambient pressure.

The additional disks are easy to clean and replace ...

## 优势

- Widest measuring range of 200 nm to 40  $\mu\text{m}$  (3 measuring ranges selectable in one device)
- Calibration curves for different refractive indices
- Widest concentration range of 0 particle/ $\text{cm}^3$  up to 5  $\cdot 10^4$  particles/ $\text{cm}^3$
- Very high and reproducible counting efficiency rate starting at 0.12  $\mu\text{m}$  (see Graph 1)
- 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

## 应用领域

- 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
- Emission measurements
- Immission measurements

## 技术数据

测量范围(数量浓度)	$0 - 5 \cdot 10^4$ particles/cm <sup>3</sup>
测量范围(粒径)	0.2 – 40 µm (3 measurement ranges)
体积流量	1.6 l/min, 5 l/min (others on demand)
Thermodynamic conditions	+10 – +40°C, ≤ 10 bar <sub>g</sub>
Light source	Xenon high pressure lamp 75 W
电源	115 – 230 V, 50/60 Hz
Cuvette	Pressure-resistant
Cooling	Air cooling
Dimensions	200 • 530 • 530 mm (H • W • D)
重量	Approx. 19 kg