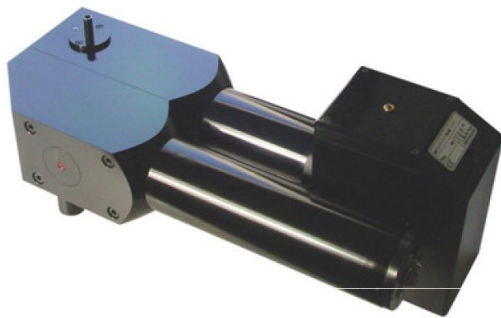


# Aerosol sensor welas<sup>®</sup> 1100 P



Aerosol sensor pressure-resistant up to 10 bar overpressure

## Benefits

- 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 particles/cm<sup>3</sup> up to  $5 \cdot 10^5$  particles/cm<sup>3</sup>
- 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

## 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
- Emission measurements
- Immission measurements



<https://www.palas.de/product/aerosolsensorwelas1100P>

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## Datasheet

<i>Parameter</i>	<i>Description</i>
<b>Measurement range (size)</b>	0.2 – 40 µm (3 measurement ranges)
<b>Measurement range (number C<sub>N</sub>)</b>	0 – 5 • 10 <sup>5</sup> particles/cm <sup>3</sup>
<b>Thermodynamic conditions</b>	+10 – +40°C, 10 bar
<b>Volume flow</b>	1.6 l/min, 5 l/min (others on demand)
<b>Light source</b>	Xenon high pressure lamp 75 W
<b>Power supply</b>	115/230 V, 50/60 Hz
<b>Dimensions</b>	200 • 530 • 530 mm (H • W • D)
<b>Weight</b>	approx. 19 kg
<b>Cooling</b>	Air cooling
<b>Cuvette</b>	Pressure-resistant

**Palas GmbH**  
Partikel- und Lasermesstechnik  
Greschbachstrasse 3 b  
**76229 Karlsruhe**  
Germany

**Managing Partner:**  
Dr.-Ing. Maximilian Weiß  
**Commercial Register:**  
register court: Mannheim  
company registration number: HRB 103813  
USt-Id: DE143585902



**Contact:** E-Mail: [mail@palas.de](mailto:mail@palas.de) Internet: [www.palas.de](http://www.palas.de) Tel: +49 (0)721 96213-0 Fax: +49 (0)721 96213-33