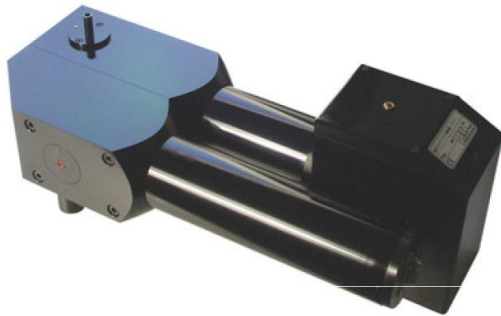


Aerosol sensor welas[®] 1100



The welas[®] 1100 aerosol sensor for number concentrations up to 500,000 particles/cm³

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/cm³ up to 5 • 10⁵ particles/cm³
- Very high and reproducible counting efficiency rate starting at 0.12 µm (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

Model Variations

model available in additional variations



<https://www.palas.de/product/aerosolsensorwelas1100>

Aerosol sensor welas[®] 1100



Datasheet

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

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