

Aerosol sensor with optical fibre technology for number concentrations up to 500,000 particles/cm<sup>3</sup>



## 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 (see Graph 1)
- 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  
... more variations available



<https://www.palas.de/product/aerosolsensorwelas2100>

# Aerosol sensor welas<sup>®</sup> 2100



## Datasheet

| <i>Parameter</i>                           | <i>Description</i>                                |
|--|---|
| Measurement range (size)                   | 0.2 - 40 µm (3 measurement ranges)                |
| Measurement range (number C <sub>N</sub> ) | 0 - 5 • 10 <sup>5</sup> particles/cm <sup>3</sup> |
| Thermodynamic conditions                   | +10 - +40°C, -100 - +50 mbarg                     |
| Volume flow                                | 5 l/min (others on demand)                        |
| Light source                               | Xenon arc lamp 35 W                               |
| Dimensions                                 | 50 • 250 • 100 mm (H • W • D)                     |
| Weight                                     | approx. 2.8 kg                                    |

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