# AEROSOL SENSOR WELAS®
# 2070 H


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

For this reason, the aerosol sensors welas® 2070 H through to welas® 2500 H are equipped with a heatable cuvette to ensure isobaric and isothermal sampling down to the sensor's measurement volume.

The cuvettes are made of stainless steel. If the sensor is used in aggressive and corrosive aerosols, the cuvette can be made of other special materials, such as Hastelloy.

Sealed additional disks prevent aerosol from the cuvette from escaping into the surroundings. The other disks are easy to clean and replace by the operator.

## Benefits

- The sensors are easily replaceable
- World's smallest and most robust sensors in the 2000 series
- Very good agreement of all sensors regarding particle size and particle concentration
- Minimization of particle losses in long sampling lines by easy installation of the sensor directly at the sampling point
- Sensors for in-situ measurements
- Measurement in explosive environments in 2000 series (without heating)
- Easy to clean
- Simple operation
- Reliable function
- Low maintenance
- Reduces your operating costs

## 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

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| Measurement range (number $C_N$) | 0 – $10^6$ particles/$cm^3$ |
| Measurement range (size) | 0.2 – 40 $\mu$m (3 measurement ranges) |
| Volume flow | 5 l/min (others on demand) |
| Thermodynamic conditions | 250°C, -100 – +50 $mbar_g$ |
| Light source | Xenon arc lamp 35 W |
| Cuvette | |
| | Heatable |
| Dimensions | 50 • 250 • 100 mm (H • W • D) |
| Weight | Approx. 2.8 kg |