AEROSOL SENSOR WELAS® 2500 HP



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

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

The cuvettes are made of anodized aluminum (black). 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.

The additional disks are easy to clean and replace by the operator.

OPERATION PRINCIPLE

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

NORMS AND CERTIFICATES

ASHRAE 52.2

DATASHEET

Measurement range (number C_N)	0 – 4 • 10^3 particles/cm^3
Measurement range (size)	0.3 – 105 μm (3 measurement ranges)
Volume flow	5 l/min (others on demand)
Thermodynamic conditions	250°C, 10 bar
Light source	Xenon arc lamp 35 W
Cuvette	Heatable, pressure-resistant
Dimensions	50 • 250 • 100 mm (H • W • D)
Weight	Approx. 2.8 kg

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

Mehr Informationen:
https://www.palas.de/en/product/aerosolsensorwelas2500hp