Aerosol Sensor welas® 2100 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 aerosol sensors welas® 2070 HP through to welas® 2500 HP are equipped with a 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.

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
- 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
- Emission measurements
- Immission measurements