AEROSOL SENSOR WELAS® 2070 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.

优势

- 传感器易于更换
- 2000 系列中体积最小、最坚固的传感器
- 所有传感器在粒径和颗粒物浓度方面具有很好的一致性
- 传感器可直接安装在采样点，便于很大限度减少长采样管线中的颗粒物损失
- 适用于原位测量的传感器
- 2000 系列传感器可用于爆炸性环境（无加热）
- 易于清洁
- 操作简单
- 功能可靠
- 维护需求低
- 降低您的运营成本

应用领域

- 分离效率测定：适用于汽车内部过滤器、发动机空气过滤器、室内空气过滤器、压缩空气过滤器、吸尘器过滤器、可清洗过滤器、静电除尘器、油分离器、冷却润滑剂分离器、湿式洗涤器、旋风分离器及其他分离设备的分离效率测定
- 等温等压粒径及定量测定：例如在汽车、化工、制药和食品工业中的应用
- 快速瞬态过程分析
- 烟雾探测器检测
- 云形成过程中的颗粒形成研究
- 排放测量
- 空气质量/污染测量

技术数据

测量范围(数量浓度)	0 – 10^6 particles/cm^3
测量范围(粒径)	0.2 – 40 μm (3 measurement ranges)
体积流量	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)
重量	Approx. 2.8 kg