Aerosol sensor welas[®] 2070 H



Aerosol sensor pressure-resistant up to 1 bar over pressure and heatable up to 250 $^{\circ}\mathrm{C}$



Description

Depending on the composition of the aerosol 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.



Figure 1: Heatable welas[®] cuvette The cuvettes are made of stainless steel. 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

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Datasheet

Parameter	Description			
Measurement range (size)	0.2 – 40 μm (3 measurement ranges)			
Measurement range (number C _N)	0 – 10 ⁶ particles/cm ³			
Thermodynamic conditions				
	250°C, -100 – +50 mbar _g			
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			
Cuvette				
	Heatable			

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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

Palas GmbH Partikel- und Greschbachs 76229 Karlsr Germany	l Lasermesstechnik strasse 3 b	0	milian Weiß Register: t: Mannheim istration number: HRB 103813	国際国際
Contact:	E-Mail: mail@palas.de	Internet: www.palas.de	Tel: +49 (0)721 96213-0	Fax: +49 (0)721 96213-33

