



Real-time particle size and particle quantitative determination of spray bursts for MDIs (Metered Dose Inhaler), nebulizers and DPIs

Benefits

- Measuring range 0.2 - 40 μm (3 measuring ranges selectable in one device)
- Very high temporally resolved particle size and particle quantity determination down to 10 ms
- Concentration range up to 10^7 particles/ cm^3
- Characterization of a single spray burst in a few seconds
- Rapid determination of size distributions and concentrations
- Calibration, cleaning and lamp replacement can all be performed independently by the customer
- Extensive, practically-oriented and user-friendly software
- Low maintenance
- Simple operation
- Reliable function
- Reduces your operating expenses

Applications

- Characterization of spray and nebulizer nozzles
- Characterization of inhalation aerosols in accordance with the European Pharmacopoeia with 15 l/min, 30 l/min or variable flow rates
- Characterization of inhalation aerosols in accordance with the European Pharmacopoeia with variable flow rates up to 100 l/min controlled by the differential pressure
- Measurement of MDIs, nebulizers and PDIs



<https://www.palas.de/product/inas100>

Datasheet

Parameter	Description
Interfaces	USB
Measurement range (size)	0.2 - 40 µm (3 measurement ranges)
Size channels	up to 128 (64/decade)
Measuring principle	Optical light-scattering
Measurement range (number C_N)	0 - 1 • 10 ⁷ particles/cm ³
Volume flow	15 l/min (nebulizer), 30 l/min (MDI), variable flow rate up to 100 l/min (DPI) controlled by differential pressure according to the European Pharmacopoeia
Data acquisition	20 MHz processor, 256 raw data channels, digital
Light source	Xenon arc lamp 35 W
User interface	Laptop or pc
Dimensions	Top part: 600 • 260 • 170 mm, desktop case: 190 • 450 • 370 mm
Support options	Direct remote access, Palas [®] webserver service
Weight	approx. 25 kg

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