



Lightweight, caseless fine dust aerosol spectrometer for integration in carrier systems, battery powered (Photo: Cased for flight drone)

Benefits

- Flexible possibilities for installation and application due to small dimensions and very light weight
- Continuous and simultaneous real-time measurement of multiple PM values
- Additional information based on particle number concentration and particle size distribution
- Highly independent due to battery operation
- Up to six hours measuring time in battery mode
- Light source: LED
- PDAnalyze Fidas® software for individual analysis of your measurement data on an external PC
- Low maintenance
- External check of calibration on site possible
- Intuitive and easy to operate
- Reliable function

Applications

- Integration in carrier systems such as, e. g., drones (for example Fidas® Fly 200) or unmanned vehicles
- Integration in one's own measurement setup, housing or payload unit



<https://www.palas.de/product/fidasfly100>

Datasheet

Parameter	Description
Interfaces	Wi-Fi (optional USB)
Measurement range (size)	0.18 – 40 µm (2 measuring ranges)
Size channels	64 (32/decade)
Measuring principle	Optical light-scattering
Measurement range (number C_N)	0 – 20,000 particles/cm ³
Volume flow	1.4 l/min
Dimensions	9 • 15 • 24 cm (H • W • D)
Weight	ca. 1 kg (without battery and housing)
Data logger storage	32 GB
Measurement range (mass)	0 – 1,500 µg/m ³
Reported data	PM1, PM2.5, PM4, PM10, TSP, Anzahlverteilungen

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