Fidas[®] Frog





Battery powered, portable fine dust measurement device with detachable control panel, for outdoor, indoor and workplace measurements

Benefits

- Continuous and simultaneous real-time measurement of PM₁, PM_{2.5}, PM₁₀ and TSP-values
- Additional particle number concentration and particle size distribution
- Wide measuring range: 180 nm 100 μm
- Adjustable time resolution from 1 s
- Direct comparison of different measurements
- Configuration of limit values possible
- High quality of measuring data through implementation of the sensor / evaluation algorithm of ENcertified Fidas[®] 200
- Additonal expanded range of applications by possible separation of the measuring device and the Tablet-PC for control (communication via WLAN)
- Up to eight hours of measurement time in battery mode
- Ergonomic design and low weight
- Intuitive and simple operation
- Integrated camera for documentation of the measurement
- Export function for measured data
- Possibility to generate a measurement report as pdf in Fidas[®] Frog
- Remote monitoring and control via network integration easily possible

Applications

- Fine dust monitoring at alternating locations or in movement
- Air quality monitoring indoors, at the workplace, or inside vehicles
- Use as an aerosol spectrometer in setups where space is limited



https://www.palas.de/product/fidasfrog

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Datasheet

Parameter	Description				
Interfaces	USB, Ethernet by USB-adapter, WiFi access point				
Measurement range (size)	0.18 – 100 μm (2 measuring ranges)				
Size channels	32/decade, 256 raw data channels				
Measuring principle	Optical light scattering of single particles				
Measurement range (number C _N)	0 – 20,000,000 particles/l				
Volume flow	1.4 l/min				
Data acquisition	Digital, 20 MHz processor, 256 raw data channels				
Light source	LED				
Power consumption	13 W				
User interface	Touch screen, 1,280 • 800 pixel, 8"				
Housing	Synthetic housing				
Dimensions	100 • 240 • 150 mm (H • W • D)				
Weight	approx. 2.1 kg (0.4 kg operating panel, 1.7 kg measuring unit)				
Operating system	Windows 10				
Data logger storage	approx. 16 GB, extendable by micro-SD				
Battery operation	Li-ion batterys, non-removableBase unit: 77 Wh (14.8 V; 5,200mAh), 8 cellsTablet: 20 Wh (3.8 V; 5,200mAh), 2 cells				
Measurement range (mass)	0 – 100 mg/m ³ (abhängig von der				
Den ente di dete	Aerosolzusammensetzung)				
Reported data	PM1, PM2,5, PM4, PM10, TSP, C _N , Partikelgrößenverteilung				
Installation conditions	0 - 40 °C				

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