

U-RANGE 2000



Combination of Fidas® 200 and U-SMPS systems for particle measurements in the size range of 4 nm to 40 μm

Benefits

- Particle size distributions from 4 to 40 nm
- Additional determination of PM fractions (e.g. PM_{2.5}, PM₁₀)
- Continuous and fast-scanning principle of measurement
- High resolution in up to 64 size classes/decade
- Graphic display of measurement values
- Intuitive operation using 7" touchscreen and GUI
- Integrated data logger
- Supports multiple interfaces and remote access
- Low maintenance
- Reliable function
- Reduces your operating expenses

Applications

- Aerosol research
- Environmental and climatic studies
- Inhalation experiments
- Filter test
- Interior and workplace measurements
- Distribution studies (e.g. fires, volcanoes)

<https://www.palas.de/product/urange2000>

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Datasheet

Parameter	Description
Interfaces	USB, Ethernet (LAN), Wi-Fi, RS-232/485
Size channels	up to 120 (32/decade)
Time resolution	3 min
Volume flow	4.8 l/min
User interface	Touchscreen, 800 • 480 pixel, 7" (17.78 cm)
Power supply	115/230 V, 50/60 Hz
Dimensions	19" or 18.5 • 45 • 32 cm (H • W • D, Fidas®), 33 • 38 • 24 cm (H • W • D, UF-CPC), 15 • 57 cm (ø base • H, U-SMPS column), 33 • 38 • 24 cm (H • W • D, U-SMPS control unit)
Weight	Approx. 9.3 kg (Fidas®, U-SMPS column), approx. 12.9 kg (U-SMPS control unit), approx. 10 kg (U-SMPS UF-CPC)
Data logger storage	4 GB
Software	PDAnalyze
Volume flow (sheath air)	2.5 – 10 l/min
Operation liquid	Butanol, isopropanol, water or other (UF-CPC)
Particle size range	4 – 40.000 nm

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