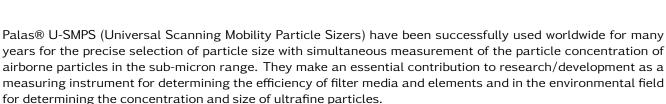
U-SMPS 1050/1100/1200

PALAS





Depending on the combination of classifying column (DMA), control unit (DEMC), and particle counter, they cover ranges from a few nanometers to several micrometers. Different combinations are possible depending on the application and customer requirements.

The maximum possible resolution is 128 channels/decade. Combined with an optical particle counter, the upper limit can be extended to 40 μ m (U-Range System: U-SMPS System + Fidas® System or Promo® System).

Palas® U-SMPS System can be operated directly with max. two different counters and also accepts third-party products of well-known manufacturers for direct comparison.

BENEFITS

- Particle size distributions from 4 nm to 440 nm
- Continuous and fast-scanning principle of measurement
- High resolution in up to 64 size classes / decade
- Suitable for concentrations of up to $10^8 \ \rm particles/cm^3$
- Universally connects to DMAs and nanoparticle counters from other manufacturers
- 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

* Please contact Palas® for further details.

APPLICATIONS

- Filter test
- Aerosol research
- Environmental and climatic studies
- Inhalation experiments
- Interior and workplace measurements

MODEL VARIATIONS



U-SMPS 1050 X / 1100 X / 1200 X

Universal scanning mobility particle sizer for various applications of 4 - 440 nm with integrated X-ray ionization https://www.palas.de/product/usmps1050x1100x1200x

PALAS

DATASHEET

$\begin{array}{ll} Measurement & range \\ (number \ C_N) \end{array}$		Measurement range (size)	4 – 440 nm
	0 – 10 ⁸ particles/cm ³		
Volume flow (sheath air)	2.5 – 14 l/min	Size channels	Max. 256 (128/decade)
User interface	Touchscreen, 800 • 480 pixel, 7" (17.78 cm)	Data logger storage	4 GB
Software	PDAnalyze	Power supply	115 – 230 V, 50/60 Hz
Installation conditions	+10 - +30 °C (others on demand)	Adjustment range (voltage)	1 – 10,000 V
Data Management	Prepared for connection to the Palas®Cloud MyAtmo- sphere ("MyAtmosphere- ready"); internet access and separate registration required.MyAtmosphere terms and conditions of use apply.		

Version: May 12, 2024 Page 2 of 2