

U-SMPS 2050/2100/2200



Palas U-SMPS (Universal Scanning Mobility Particle Sizers) have been successfully used worldwide for many years for the precise selection of particle size with simultaneous measurement of the particle concentration of airborne particles in the sub-micron range. They make an essential contribution to research/development as a measuring instrument for determining the efficiency of filter media and elements and in the environmental field for determining the concentration and size of ultrafine particles.

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 ...

®

BENEFITS

- Particle size distributions from 4 nm to 1.2 μm
- Continuous and fast-scanning principle of measurement
- High resolution in up to 128 size classes/decade
- Suitable for concentrations of up to 10^8 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 2050 X / 2100 X / 2200 X

Universal scanning mobility particle sizer for various applications of 4 – 1200 nm with integrated X-ray ionization

<https://www.palas.de/product/usmps2050x2100x2200x>

DATASHEET

| | | | |
|--------------------------------------|---|-----------------------------|---|
| Measurement range (number C_N) | 0 – 10 ⁸ particles/cm ³ | Measurement range (size) | 4 – 1,200 nm |
| Volume flow | 0.5 – 3 l/min | Volume flow (sheath air) | 2.5 – 14 l/min |
| Size channels | Max. 256 (128/decade) | Interfaces | USB, Ethernet (LAN), AUX, RS-232 (CPC only) |
| User interface | Touchscreen, 800 • 480 pixel, 7" (17.78 cm) | Data logger storage | 4 GB |
| Software | PDAnalyze | Installation conditions | +10 – +30 °C (others on demand) |
| Adjustment range (voltage) | 1 – 10,000 V(UP and DOWN scan possible) | Data Management | Prepared for connection to the Palas Cloud MyAtmosphere ("MyAtmosphere-ready"); internet access and separate registration required. MyAtmosphere terms and conditions of use apply. |