

# U-SMPS 1050 X/1100 X/1200 X



A soft X-ray source as a neutralizer is already integrated. The advantage instead of a radioactive neutralization (for example, with Kr-85) is that there is no need to follow requirements during transportation.

## 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  $10^8$  particles/cm<sup>3</sup>
- 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

\* Please contact Palas® for further details.

## APPLICATIONS

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

## DATASHEET

|                             |       |                                               |                      |       |                                                                                                                                                                          |
|-----------------------------|-------|-----------------------------------------------|----------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Measurement (number $C_N$ ) | range | 0 – 10 <sup>8</sup> particles/cm <sup>3</sup> | Measurement (size)   | range | 4 – 440 nm                                                                                                                                                               |
| Volume flow (sheath air)    |       | 2.5–20 l/min (others on request)              | 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 request)              | Adjustment (voltage) | range | 1 – 10,000 V                                                                                                                                                             |
| Neutralisierer              |       | XRC 049                                       | Data Management      |       | Prepared for connection to the Palas Cloud MyAtmosphere ("MyAtmosphere-ready"); Internet access and separate registration required. The MyAtmosphere terms of use apply. |

## NORMS AND CERTIFICATES

ISO 15900:2010, ISO 27891:2015