

# UF-CPC 200



The Palas UF-CPC 200 is a butanol-based nanoparticle counter with high efficiency. It measures the number concentrations of ultrafine particles (UFP) in aerosols. Model 200 is designed for concentrations up to  $2 \cdot 10^6$  particles/cm<sup>3</sup>. This makes it especially suitable for low dilution measurement of high aerosol concentrations from particle generators, exhaust gas, or ambient air of exposed and heavily polluted areas.

In nephelometer mode, measurements up to  $2 \cdot 10^7$  particles/cm<sup>3</sup> are possible. The counter can be easily combined with the Palas size classifiers and thus directly allows the measurement of highly concentrated and size-selected aerosols, e.g., for efficiency measurement of HEPA filter media in test stands.

The patented evaporator and condensation module is maintenance-free. This allows continuous operating times of up to one year - unique.

## BENEFITS

- Intuitive user interface with sophisticated software for data analysis
- Unlimited network compatibility that supports remote control and data storage on the Internet
- Visualization of all operating and measurement data
- Integrated interface for process control applications
- Lower detection efficiency D50 adjustable to 10 nm (others on request)

## APPLICATIONS

- Aerosol research
- Testing of filters and air purifiers
- Environmental measurements
- Occupational exposure and workplace safety studies
- Inhalation and health effects studies
- Process monitoring
- Printer emission studies

## FEATURES

- Automatic measurement data storage
- Measurement of the particle size distribution of condensed particles for quality assurance
- Integrated pump
- Integrated computer with 7" touchscreen

## DATASHEET

Measurement (number $C_N$ )	range	$2 \cdot 10^6$ particles/cm <sup>3</sup> (single count mode)	Measurement (size)	range	4 – 10,000 nm
Volume flow		0.9 l/min (butanol) 0.3 – 1 l/min (adjustable for research applications)	User interface		Touchscreen, 800 • 480 pixel, 7" (17.78 cm)
Data logger storage		4 GB	Software		PDAnalyze
Data acquisition		Digital, 20 MHz processor, 256 raw data channels	Light source		LED
Installation conditions		+10 – +30 °C (others on demand)	Accuracy		5 % (single count mode)
Response time		$t_{90} < 2.8$ s, $t_{90-10} < 2.0$ s	Operation liquid		1-butanol
Dimensions		290 • 240 • 350 mm (H • W • D)			