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/cm³. 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/cm³ 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

- This novel and patented working fluid delivery system allows the user to quickly switch between butanol and isopropanol, for example, or even water.
- The UF-CPC 200 can count up to $2 \cdot 10^6$ particles/cm³ in single count mode, depending on the sensor in use (able to be switched out by the user).
- Integrated computer with 7" touch screen
- Intuitive user interface with sophisticated software for data analysis
- Integrated data logger
- Unlimited network compatibility that supports remote control and data storage on the Internet
- Integrated interface for process control applications

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



DATASHEET

$\begin{array}{ll} \text{Measurement} & \text{range} \\ \text{(number } C_N) \end{array}$	$2 \cdot 10^6$ particles/cm ³ (single count mode)	Measurement range (size)	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)		