



The ENVI-CPC 200 is currently the only butanol-based particle counter with high efficiency, which can directly determine the highest concentrations of $2 \cdot 10^6$ particles in single counting mode in high resolution without dilution. It is part of our modular nanoparticle measurement system. It can be combined arbitrarily with different systems to measure ultrafine particles. Likewise, it is particularly suitable for long-term measurement of combustion or other aerosols with high concentrations of nanoscaled particles. The patented evaporator and condensation module is maintenance-free. This allows continuous operating times of up to one year without maintenance and cleaning.

The system meets the requirements of the current standard EN 16976:2024 (Harmonized measurement of number concentrations using CPC) in all areas. It can be operated directly with a NAFION

® based ...

BENEFITS

- The unique, patented way of providing the working fluid for unattended operation for months
- Ambient air monitoring without a dilution system
- Intuitive user interface with sophisticated software for data evaluation
- Limitless, integrated network connectivity that supports remote operation and data storage on the internet
- Powerful software package
- Low maintenance

APPLICATIONS

- 气溶胶研究
- 环境测量
- 环境监测测量网络
- 工作场所安全与职业暴露研究
- 交通排放监测
- 健康研究
- 移动气溶胶研究

特点

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

DATASHEET

测量范围(数量浓度)	$2 \cdot 10^6$ particles/cm ³ (single count mode)	测量范围(粒径)	4 – 5,000 nm
体积流量	0.9 l/min (others on request)	Time resolution	min. 1 s
Interfaces	USB, Ethernet (LAN), RS-232/485	User interface	Touchscreen, 800 • 480 pixel, 7" (17.78 cm)
Detection efficiency (at low particle size)	D50 = 10 +/- 1 nm; D90 < 20 nm (others on request)	Data acquisition	Digital, 20 MHz processor, 256 raw data channels
Light source	Long term stable LED	Installation conditions	+10 – +30 °C (others on request)
Accuracy	5% (Einzelzählmodus)	Response time	t ₉₀ < 3 s
Arbeitsflüssigkeit	Butanol	Dimensions	330 • 380 • 240 mm (H • W • D)
Weight	Approx. 10 kg	Data Management	Prepared for connection to the Palas Cloud MyAtmosphere ("MyAtmosphere-ready"); Internet access and separate registration required. The MyAtmosphere terms of use apply.

标准和证书

EN 16976:2024-09, ISO 27891:2015