

ENVI-CPC 200



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 - unique.

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 ...

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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

- Aerosol Research
- Environmental measurements
- Environmental monitoring measurement networks
- Workplace safety and occupational exposure studies
- Traffic emission monitoring
- Health studies
- Mobile aerosol 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

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|-----------------------------------|---|---|---------------------------------|
| Measurement range (number C_N) | $2 \cdot 10^6$ particles/cm ³ (single count mode) | Measurement range (size) | 4 – 5,000 nm |
| Volume flow | 0.9 l/min | 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 |
| Data acquisition | Digital, 20 MHz processor, 256 raw data channels | Light source | Long term stable LED |
| Installation conditions | +10 – +30 °C (others on demand) | Accuracy | 5% (Einzelzählmodus) |
| Response time | $t_{90} < 3$ s | Operation liquid | 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. MyAtmosphere terms and conditions of use apply. | | |