



The new P-DAP 2000 system for emission measurement is equipped with a highly resolving aerosol photometer for an extensive measurement range of mass concentration which is specially developed for the operation in monitoring applications.

工作原理

EMISSION MEASUREMENT WITH HIGH-RESOLUTION PROCESS LED AEROSOL PHOTOMETER

The P-DAP 2000 is equipped with a photometer mode, which enables the operator to perform distinct measurements concerning mass concentration, especially at very low particle concentrations independent of particle size distribution.

The heart of this high-resolution aerosol photometer is the new LED technology with an extra-long lifetime at the highest stability in particle measurement. The advantages of a white light source with 90° light scattering in concentration measurements were implemented with LED technology.

The sensor is connected via a light wave conductor with the control unit and can be installed flexibly at the aerosol measurement site.

The P-DAP system has a sample lance for the exhaust fumes and a supply unit for diluting air.

优势

- Self-explanatory operation
- Photometer mode for particle measurement
- Flexible sensor installation independent from position of the control unit
- Quick and highly resolved measurement
- Long lifetime on lamp due to new LED technology

技术数据

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|-------------------------|--|
| 测量原理 | Optical light scattering at single particles |
| 体积流量 | 5 l/min |
| Size channels | 64 (32/decade) |
| 接口 | USB, Ethernet (LAN), RS-232 |
| User interface | Touchscreen, 800 • 480 pixel, 7" (17.78 cm) |
| Data logger storage | 4 GB Compact Flash |
| Data acquisition | Digital, 20 MHz processor, 256 raw data channels |
| Light source | LED |
| Operating system | Windows embedded |
| 电源 | 115 – 230 V, 50/60 Hz |
| Power consumption | Normal operation: 60 W, max. 200 W |
| Installation conditions | +5–+40 °C |
| Pressure | -100 – 50 mbar |
| Dimensions | Control unit: 184 • 483 • 313 mm (H • W • D), sensor: 185 • 125 • 305 mm (H • W • D) |
| 重量 | Control unit: 8.2 kg, sensor: 3.2 kg |

应用领域

- Process monitoring of mass concentration in gases, especially in emission measurements



Mehr Informationen:
<https://www.palas.de/zh/product/P-DAP2000>