



The welas<sup>®</sup> aerosol sensors welas<sup>®</sup> 2070 P, HP, 2100 P, HP, 2300 P, HP and welas<sup>®</sup> 2500 P, HP are equipped with a heatable and, as required, pressure-tight cuvette to ensure isobaric and isothermal sampling into the sensor's measurement volume. The Promo<sup>®</sup> 3000 H model variant also offers heating regulation for temperatures up to 250 °C for the aerosol sensors with heatable cuvette. The Promo<sup>®</sup> system is usually calibrated for the operating volume flow.

In the Promo<sup>®</sup> 3000 H version, the customer's regulation of the sampling volume flow is performed independently, considering the temperature and pressure.

## 优势

- 测量范围为0.2至100  $\mu\text{m}$ （在一台设备中可选择4个测量范围）
- 仅一台设备中可配置多达4个测量范围：
  - 0,2  $\mu\text{m}$  – 10  $\mu\text{m}$
  - 0,3  $\mu\text{m}$  – 17  $\mu\text{m}$
  - 0,6  $\mu\text{m}$  – 40  $\mu\text{m}$
  - 2  $\mu\text{m}$  – 100  $\mu\text{m}$ （仅限于welas<sup>®</sup> 2300和welas<sup>®</sup> 2500传感器）
- 每个测量范围支持多达128个粒径通道
- 浓度范围从< 1 颗粒/ $\text{cm}^3$ 至 $10^6$  颗粒/ $\text{cm}^3$
- 不同折射率的校准曲线
- 从0.2  $\mu\text{m}$ 开始具有很高且可重现的计数效率
- 光纤技术
- 操作简便，配有大尺寸触摸显示屏
- 客户可以独立进行校准、清洁和更换灯泡
- 外部控制可通过RS 232或以太网实现
- PDAanalyze 分析软件
- 可选：PDControl 软件支持welas<sup>®</sup> digital 运行
- 维护成本低
- 功能可靠

## 应用领域

- 设施的排放监测
- 研磨与分级工艺控制
- 食品、制药及化工行业生产过程监测
- 完整过滤器、惯性分离器、湿式分离器或静电除尘器的测试

## 特点

- Up to four measuring ranges in one device: 0.2  $\mu\text{m}$  – 10  $\mu\text{m}$  | 0.3  $\mu\text{m}$  – 17  $\mu\text{m}$  | 0.6  $\mu\text{m}$  – 40  $\mu\text{m}$  | 2  $\mu\text{m}$  – 100  $\mu\text{m}$
- Up to 128 size channels per measuring range
- <https://www.palas.de/zh/product/promo3000h>
- Unique calibration curve thanks to white light source with 90° scattered light detection

## 技术数据

测量原理	Optical light-scattering
测量范围(数量浓度)	$< 1 \cdot 10^6$ particles/cm <sup>3</sup>
测量范围(粒径)	0.2 – 10 $\mu$ m, 0.3 – 17 $\mu$ m, 0.6 – 40 $\mu$ m, 2 – 100 $\mu$ m
体积流量	5 l/min
Size channels	Max. 128 (64/decade)
Time resolution	$\leq 1$ s
接口	USB, Ethernet (LAN), Wi-Fi, RS-232/485
User interface	Touchscreen, 800 • 480 pixel, 7" (17.78 cm)
Data logger storage	4 GB Compact Flash
软件	PDControl, FTControl, PDAnalyze
Thermodynamic conditions	$\leq 250^\circ\text{C}$ , -100 – 50 mbar
Data acquisition	Digital, 20 MHz processor, 256 raw data channels
Light source	Xenon arc lamp 35 W
外壳	Table housing, optional: with mounting brackets for rack-mounting
Support options	Direct remote access, Palas webserver service
Operating system	Windows embedded
电源	115 – 230 V, 50/60 Hz
Power consumption	100 W
Installation conditions	+5 – +40 °C (control unit)
Dimensions	185 • 450 • 315 mm (H • W • D) (19")
重量	Control unit: approx. 8 kg, sensor: approx. 2.8 kg