

PROMO[®] 3000 H



The welas[®] aerosol sensors welas[®] 2070 P, HP, 2100 P, HP, 2300 P, HP and welas[®] 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[®] 3000 H model variant also offers heating regulation for temperatures up to 250 °C for the aerosol sensors with heatable cuvette. The Promo[®] system is usually calibrated for the operating volume flow.

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

工作原理

优势

- 测量范围为0.2至100 μm （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 μm – 10 μm
 - 0,3 μm – 17 μm
 - 0,6 μm – 40 μm
 - 2 μm – 100 μm （仅限于welas® 2300和welas® 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/ cm^3 至 10^6 颗粒/ cm^3
- 不同折射率的校准曲线
- 从0.2 μm 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® digital 运行

- 维护成本低
- 功能可靠
- 降低运营成本

技术数据

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|--------------------------|--|
| 测量原理 | Optical light-scattering |
| 测量范围(数量浓度) | $< 1 \cdot 10^6 \text{ particles/cm}^3$ |
| 测量范围(粒径) | 0.2 – 10 μm , 0.3 – 17 μm , 0.6 – 40 μm , 2 – 100 μm |
| 体积流量 | 5 l/min |
| Size channels | Max. 128 (64/decade) |
| Time resolution | $\leq 1 \text{ s}$ |
| 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 | PDCControl, 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 |

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



Mehr Informationen:
<https://www.palas.de/zh/product/promo3000h>