PROMO® 2000 H

The welas® aerosol sensors welas® 2070 H, HP, 2100 H, HP, 2300 H, HP and welas® 2500 H, 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® 2000 H model variant also offers heating regulation for temperatures up to 250 °C for the aerosol sensors with heatable cuvette.

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
- 耐压高达10 bar（可选）
- 可加热至250 ℃ （可选）
- 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® digital 运行

特点

- Up to three measuring ranges in one device 0.2 μm – 10 μm | 0.3 μm – 17 μm | 0.6 μm – 40 μm
- Up to 128 size channels per measuring range
- Unique calibration curve thanks to white light source with 90° scattered light detection
- Patented T-aperture: No edge zone error
- Digital single signal processing: Coincidence

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

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^3
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)
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
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
Power consumption	100 W
Installation conditions	+5 – +40 ℃ (control unit)
Dimensions	185 • 450 • 315 mm (H • W • D) (19″)
重量	Control unit: approx. 8 kg, sensor: approx. 2.8 kg