PROMO[®] 2000





Promo[®] 2000 is a light-scattering aerosol spectrometer system for particle size analysis and concentration determination that can be equipped with all welas[®] sensors. On Promo[®] 2000, the welas[®] sensors equipped with different measurement volumes, as required, can be easily connected via fiber optic cables and interchanged as needed. These sensors allow reliable measurement in the concentration range from < 1 particle/cm³ to 10⁶ particles/cm³ in gases.

Promo® 2000 is famous for up to 128 size channels per measuring range and a concentration range from < 1particle/cm³ to 10^6 particles/cm³.

BENEFITS

- Measuring range from 0.2 μ m to 100 μ m (up to 4 measuring ranges selectable in one device)
- Very high size resolution
- Concentration range from $< 1 \text{ particle/cm}^3 \text{ to } 10^6$ particles/cm³
- · Calibration curves for different refractive indices
- Very high and reproducible counting efficiency even from 0.2 µm
- Pressure resistant up to 10 bar (optional)
- Heatable up to 250°C (optional)
- Optical fiber technology
- · Easy to operate thanks to large touch display
- Calibration, cleaning, and lamp replacement can be carried out independently by the customer
- External control via RS 232 or Ethernet
- With PDAnalyze analysis software
- Optional: PDControl software available for operation as welas[®] digital
- Low maintenance
- Reduces your operating costs

FEATURES

- Up to four measuring ranges can be selected in one device: 0.2 μ m - 10 μ m | 0.3 μ m - 17 μ m | 0.6 μ m - 40 μm | 2 μm - 100 μm
- Up to 128 size channels per measuring range
- · Clear calibration curve thanks to white light source

https://www.palas.ce/product/promo2000 • Patented T-aperture: No edge zone error

Digital single signal processing: Coincidence

APPLICATIONS

- · Emission monitoring of installations
- · Control of grinding and classification processes
- Monitoring of production processes in the food, pharmaceuticals and chemicals industries
- Testing of complete filters, inertial and wet separators or electrostatic precipitators

MODEL VARIATIONS

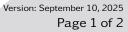


Promo[®] 2000 H With heating control up to 250 °C for welas[®] aerosol sensors https://www.palas.de/product/promo2000h

Promo[®] 2000 HP

Version with automatic regulation of the sampling flow through the welas® aerosol sensors at an overpressure of 2 to 10 bar or with heating regulation to 120 °C

https://www.palas.de/product/promo2000hp









DATASHEET

Measuring principle	Optical light-scattering	Measurement range (number C _N)	<1 • 10 ⁶ particles/cm ³
Measurement range (size)	0.2 – 10 μm, 0.3 – 17 μm, 0.6 – 40 μm, 2 – 100 μm	Volume flow	5 l/min
Size channels	Max. 128 (64/decade)	Interfaces	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
Software	PDControl, FTControl, PDAna- lyze	Data acquisition	Digital, 20 MHz processor, 256 raw data channels
Light source	Xenon arc lamp 35 W	Gehäuse	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 °C (control unit)
Dimensions	185 • 450 • 315 mm (H • W • D) (19")	Weight	Control unit: approx. 8 kg, sen- sor: approx. 2.8 kg