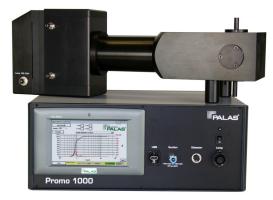
Promo® 1000





Powerful scattered-light aerosol spectrometer system for particle measurement from 120 nm

Benefits

- Measuring range of 120 nm to 40 μm (4 measuring ranges selectable in one device)
- Up to four measuring ranges in only one device:
 - 0.12 μm 3.5 μm (additionally in welas* 1000 and Promo* 1000)
 - 0.2 μm 10 μm
 - 0.3 μm 17 μm
 - 0.6 μm 40 μm
- Up to 128 size channels per measuring range
- Concentration range from < 1 particle/cm³ to 5 10⁵ particles/cm³
- Calibration curves for different refractive indices
- \bullet Very high and reproducible counting efficiency rate starting at 0.12 μm
- High temporal resolution down to 10 ms
- PDAnalyze analysis software
- Calibration, cleaning and lamp replacement can all be performed independently by the customer
- External control by RS 232 or Ethernet
- Optional: Software PDControl for operation as welas® digital available
- Simple operation
- Low maintenance
- Reliable function

Applications

- Determination of the separation efficiency of car interior filters, engine air filters, room air filters, compressed air filters, vacuum cleaner filters, cleanable filters, electrostatic precipitators, oil separators, cooling lubricant separators, wet scrubbers, cyclones and other separators
- Isothermal and isobaric particle size and quantitative determination, for instance in the automobile, chemical, pharmaceutical and food industries
- Analysis of fast, transient processes
- Inspection of smoke detectors
- Particle formation for cloud formation

Model Variations

model available in additional variations ...more variations available



https://www.palas.de/product/promo1000



Promo® 1000



Datasheet

Parameter	Description
Interfaces	USB, Ethernet, RS232/485, Wi-Fi
Measurement range (size)	0,12 μm – 3,5 μm,
	0,2 μm - 10 μm,
	0,3 μm – 17 μm,
	0,6 μm – 40 μm
Size channels	
	up to 128 (64/decade)
Measuring principle	Optical light-scattering
Measurement range (number C _N)	< 5 • 10 ⁵ particles/cm ³
Time resolution	
	up to 1 s
Thermodynamic conditions	10 - 40 °C, -100 - 50 mbar
Volume flow	5 l/min, 1.6 l/min
Data acquisition	20 MHz processor, 256 raw data channels, digital
Light source	
	Xenon high pressure lamp 75 W
User interface	Touch screen, 800 • 480 pixels, 7"
	(17.78 cm)
Power supply	
	115 - 230 V, 50 - 60 Hz
Housing	113 - 230 V, 30 - 60 HZ
Housing	Table housing, optionally with mounting brackets for rack-mounting
Dimensions	185 • 450 • 315 mm (H • W • D) (19")
Weight	165 • 450 • 515 Hilli (H • W • D) (17)
weight	approx. 8 kg (control unit), 18 kg (sensor)
Operating system	
	Windows embedded
Data logger storage	
.	
	4 GB Compact Flash
Software	PDControl, FTControl
Installation conditions	
	+5 - +40 °C (control unit)

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