



With automatic regulation of sampling volume flow by the aerosol sensors *welas[®]* under overpressure up to 10 bar or in temperatures to 120 °C

Benefits

- Measuring range of 200 nm to 40 µm (3 measuring ranges selectable in one device)
- Up to three measuring ranges in only 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
- Concentration range from < 1 particle/cm³ to 5 • 10⁵ particles/cm³
- Calibration curves for different refractive indices
- Very high and reproducible counting efficiency rate starting at 0.2 µm
- High temporal resolution down to 10 ms
- Analysing software PDAnalyze
- Calibration, cleaning and lamp replacement can all be performed independently by the customer
- External control via RS 232 or Ethernet
- Optional: PDControl software for operation as *welas[®]* digital
- Simple operation
- Low maintenance
- Reliable function

Applications

- Abscheidegradbestimmung von KFZ Innenraumfiltern, Motorluftfiltern, Raumluftfiltern, Druckluftfiltern, Staubsaugerfiltern, abreinigbaren Filtern, Elektrofiltern, Ölabscheidern, Kühlschmierstoffabscheidern, Nassabscheidern, Zyklonen und anderen Abscheidern
- Isotherme und isobare Partikelgrößen- und Mengenbestimmung, z. B. in der Automobil-, Chemie-, Pharma- und Lebensmittelindustrie
- Untersuchung schneller, instationärer Prozesse
- Partikelmessung zur Wolkenbildung
- Emissionsmessungen



<https://www.palas.de/product/promo1000hp>

Datasheet

Parameter	Description
Interfaces	USB, Ethernet, RS232/485, Wi-Fi
Measurement range (size)	0.2 – 10 µm, 0.3 – 17 µm, 0.6 – 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 – 120 °C, 2 – 10 bar _g
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	Table housing, optionally with mounting brackets for rack-mounting
Dimensions	185 • 450 • 315 mm (H • W • D) (19")
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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