# Promo<sup>®</sup> 3000 HP





With automatic regulation of sampling volume flow by the aerosol sensors welas<sup>®</sup> under overpressure up to 10 bar or in temperatures to 120 °C

#### **Benefits**

- Measuring range of 0.2 to 100  $\mu m$  (4 measuring ranges selectable in one device)
- Up to four measuring ranges in only one device:
  - 0,2 μm 10 μm
  - 0,3 μm 17 μm
  - 0,6 μm 40 μm
  - 2 μm 100 μm (additionally for sensors 2300 and 2500)
- Up to 128 size channels per measuring range
- Concentration range of 1 particle/cm<sup>3</sup> to 10<sup>6</sup> particles/cm<sup>3</sup>
- Calibration curves for different refractive indices
- Very high and reproducible counting efficiency rate starting at 0.2  $\mu m$
- Pressure-resistant up to 10 bar (optional)
- Heatable to 250 °C (optional)
- Optical fibre technology
- Simple operation with a large touch display
- Calibration, cleaning and lamp replacement can all be performed independently by the customer
- External control by RS 232 or Ethernet
- With analysis software PDAnalyze
- Optional: Software PDControl for operation as welas<sup>®</sup> digital available

### 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



https://www.palas.de/product/promo3000hp

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### Datasheet

Parameter	Description			
Interfaces	USB, Ethernet, RS232/485, Wi-Fi			
Measurement range (size)	0.2 μm – 10 μm,			
	$0.2 \mu\text{m} - 10 \mu\text{m},$ 0.3 $\mu\text{m} - 17 \mu\text{m},$			
	$0.6 \mu\text{m} - 40 \mu\text{m},$			
	$2 \mu\text{m} - 100 \mu\text{m}$			
Size channels				
	up to 128 (64/decade)			
Measuring principle	Optical light-scattering			
Measurement range (number C <sub>N</sub> )	$< 1 \bullet 10^6$ particles/cm <sup>3</sup>			
Time resolution				
	up to 1 s			
Thermodynamic conditions				
	10 – 120 °C, 2 – 10 bar <sub>g</sub>			
Volume flow	5 l/min regulated by mass flow			
Data acquisition	20 MHz processor, 256 raw data channels, digital			
Light source	Xenon arc lamp 35 W			
Power consumption				
	100 W			
User interface	Touch screen, 800 • 480 pixels, 7"			
-	(17.78 cm)			
Power supply				
Housing	115 – 230 V, 50 – 60 Hz			
Housing	Table housing, optionally with mounting brackets for rack-mounting			
Dimensions	$185 \bullet 450 \bullet 315 \text{ mm} (H \bullet W \bullet D) (19")$			
Support options				
	Direct remote access, Palas <sup>®</sup> webserver service			
Weight	······			
J. J	approx. 8 kg (control unit), approx. 2.8 kg (per sensor)			
Operating system				
	Windows embedded			
Data logger storage				
	4 GB Compact Flash			
Software	PDControl, FTControl, PDAnalyze			
Installation conditions				
	+5 – +40 °C (control unit)			

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Palas GmbH		Managing Partner:		
Partikel- und Lasermesstechnik		DrIng. Maxi	milian Weiß	PLY LEL
Greschbachstrasse 3 b		Commercial	Register:	i de la seconda de la second
76229 Karlsruhe		register cour	t: Mannheim	
Germany		company reg	istration number: HRB 103813	回花湖
USt-Id: DE143585		3585902		
Contact:	E-Mail: mail@palas.de	Internet: www.palas.de	Tel: +49 (0)721 96213-0	Fax: +49 (0)721 96213-33



