



With heating regulation up to 250 °C for welas<sup>®</sup> aerosol sensors

## Benefits

- Measuring range of 0.2 to 100 µm (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 µm
- 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
- Low maintenance
- Reliable function

## 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/promo3000h>

## Datasheet

<i>Parameter</i>	<i>Description</i>
<b>Interfaces</b>	USB, Ethernet, RS232/485, Wi-Fi
<b>Measurement range (size)</b>	0.2 µm – 10 µm, 0.3 µm – 17 µm, 0.6 µm – 40 µm, 2 µm – 100 µm
<b>Size channels</b>	up to 128 (64/decade)
<b>Measuring principle</b>	Optical light-scattering
<b>Measurement range (number C<sub>N</sub>)</b>	< 1 • 10 <sup>6</sup> particles/cm <sup>3</sup>
<b>Time resolution</b>	up to 1 s
<b>Thermodynamic conditions</b>	250°C, -100 – 50 mbar
<b>Volume flow</b>	5 l/min
<b>Data acquisition</b>	20 MHz processor, 256 raw data channels, digital
<b>Light source</b>	Xenon arc lamp 35 W
<b>Power consumption</b>	100 W
<b>User interface</b>	Touch screen, 800 • 480 pixels, 7" (17.78 cm)
<b>Power supply</b>	115/230 V, 50/60 Hz
<b>Housing</b>	Table housing, optionally with mounting brackets for rack-mounting
<b>Dimensions</b>	185 • 450 • 315 mm (H • W • D) (19")
<b>Support options</b>	Direct remote access, Palas <sup>®</sup> webserver service
<b>Weight</b>	approx. 8 kg (control unit), approx. 2.8 kg (per sensor)
<b>Operating system</b>	Windows embedded
<b>Data logger storage</b>	4 GB Compact Flash
<b>Software</b>	PDControl, FTControl, PDAnalyze
<b>Installation conditions</b>	+5 – +40 °C (control unit)

# Promo<sup>®</sup> 3000 H

**Palas GmbH**

Partikel- und Lasermesstechnik  
Greschbachstrasse 3 b  
76229 Karlsruhe  
Germany

**Managing Partner:**

Dr.-Ing. Maximilian Weiß

**Commercial Register:**

register court: Mannheim  
company registration number: HRB 103813  
USt-Id: DE143585902

**Contact:**

E-Mail: [mail@palas.de](mailto:mail@palas.de)

Internet: [www.palas.de](http://www.palas.de)

Tel: +49 (0)721 96213-0

Fax: +49 (0)721 96213-33