



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
- **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/promo2000h>

## Datasheet

Parameter	Description
<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>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 pixel, 7"
<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 (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)

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