Promo[®] 3000 HP





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 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/cm³ to 10⁶ particles/cm³
- 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[®] 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 _N) | $< 1 \bullet 10^6$ particles/cm ³ | | | |
| Time resolution | | | | |
| | up to 1 s | | | |
| Thermodynamic conditions | | | | |
| | 10 – 120 °C, 2 – 10 bar _g | | | |
| 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 [®] 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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