

# FIDAS<sup>®</sup> 200 S



EN 16450 approved fine dust aerosol spectrometer for simultaneous measurement of PM<sub>2.5</sub> and PM<sub>10</sub> in weatherproof cabinet for outdoor installation

## BENEFITS

- Type-approved and certified according to latest EN requirements (EN 15267)
- Explicitly approved for outdoor installation, highly flexible application ranges
- Continuous and simultaneous real-time measurement of multiple PM values
- Additional information on the basis of particle number concentration
- Adjustable time resolution from > 1 s to 24 h
- Light source: LED with high stability and long lifetime
- Long service life
- Low maintenance
- External check of calibration on site possible
- Intuitive and easy to operate
- Reliable function, very high data availability (> 99 %)
- 2 pumps in parallel operation for additional operational safety due to redundancy
- Permanent monitoring of status, among others online monitoring of calibration
- Remote monitoring, maintenance and control easily possible
- Cloud zone via Palas server for worldwide data retrieval

## APPLICATIONS

- Regulatory pollution control in monitoring networks
- Ambient air monitoring campaigns
- Preliminary assessments (spot checks)
- Long-term studies
- Emission source attribution
- Emission dispersion studies (e.g. fires, volcanoes)

## DATASHEET

Measuring principle	Optical light scattering of single particles
Reported data	PM <sub>1</sub> , PM <sub>2,5</sub> , PM <sub>4</sub> , PM <sub>10</sub> , TSP, C <sub>N</sub> , particle size distribution, ambient pressure, ambient temperature, rel. ambient humidity
Measurement range (number C <sub>N</sub> )	0 – 20,000 particles/cm <sup>3</sup>
Size channels	64 (32/decade)
Measurement range (size)	0.18 – 18 µm (certified range, other measuring ranges on request)
Measurement range (mass)	0 – 10,000 µg/m <sup>3</sup>
Measurement uncertainty	9.7 % for PM <sub>2,5</sub> , 7.5 % for PM <sub>10</sub> (expanded measurement uncertainty according to EN 16450, TÜV Report)
Volume flow	4.8 l/min $\hat{=}$ 0.3 m <sup>3</sup> /h ± 3% (24h), compliant with EN 16450
Time resolution	1 s – 24 h
Data acquisition	Digital, 20 MHz processor, 256 raw data channels
Light source	LED
User interface	Touchscreen, 800 • 480 pixel, 7" (17.78 cm)
Housing	Weatherproof outdoor housing (IP 65)
Weight	Approx. 60 kg
Operating system	Windows

weitere Parameter auf der Webseite ...



Mehr Informationen:  
<https://www.palas.de/product/fidas200s>