



The Fidas® 200 E version shown here consists of a 19" plug-in unit and a remote sensor (connection length 3 m, other sizes on request) for use in air-conditioned monitoring stations (temperature range 5 - 40 °C). The remote sensor, flanged to the lower end of the aerosol sampling tube, greatly simplifies installation in stations with an existing roof penetration. Variants of the Fidas® 200 E are the basic Fidas® 200 and the Fidas® 200 S (with stainless steel weatherproof housing) designed for outdoor installation.

## BENEFITS

- Type-approved and certified according to latest EN requirements (EN 15267)
- High flexibility for installation due to separation of sensor unit and control unit
- Continuous and simultaneous real-time measurement of multiple PM values
- Additional information on particle number concentration and particle size distribution
- Long service life
- Low maintenance
- External check of calibration on site possible
- Intuitive and easy to operate
- Reliable function, very high data availability (> 99 %)
- Permanent monitoring of status, among others online monitoring of calibration
- No radioactive material
- No consumables
- Low energy consumption

## APPLICATIONS

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

## DATASHEET

Measuring principle	Optical light scattering at single particles	报告数据	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
测量范围(数量浓度)	0–20.000 颗粒/cm <sup>3</sup>	测量范围(粒径)	0.18–18 µm (certified range, other measuring ranges on request)
测量范围(质量)	0–10.000 µg/m <sup>3</sup>	测量不确定性	9.7 % for PM <sub>2.5</sub> , 7.5 % for PM <sub>10</sub> (expanded measurement uncertainty according to EN 16450, TÜV Report)
体积流量	4.8 l/min $\hat{=}$ 0.3 m <sup>3</sup> /h $\pm$ 3% (24h), compliant with EN 16450	Size channels	64 (32/decade)
Time resolution	1 s–24 h	Interfaces	USB, Ethernet (LAN), RS-232, Wi-Fi
User interface	Touchscreen, 800 • 480 pixel, 7" (17.78 cm)	Protocols	UIDEP, UDP, ASCII, MODBUS, Bayern-Hessen
Data logger storage	Capacity for 2 years continuous operation at 60 s storage interval	软件	PDAnalyze
Data acquisition	Digital, 20 MHz processor, 256 raw data channels	Light source	Long term stable LED
Gehäuse	Table housing, optional: with mounting brackets for rack-mounting (control unit)	Operating system	Windows 10 IoT Enterprise
Power supply	115 – 230 V, 50/60 Hz	Installation conditions	+5–+40 °C

additional parameter on our website ...

## 标准和证书

VDI 4202-1, VDI 4203-3, EN 12341, EN 14907, EN 16450, EU-Äquivalenzleitfaden, EN 15267-1/-2, ISO 21501-1