



- Multichannel laser scattered light principle
- Precise measurement from 200 µg/m³
- Media temp. up to 500 °C, dew point up to 80 °C
- High contrast color touchscreen
- Remote control and data logger
- Can be qualified for various particle types

SMG200M

PORTABLE DUST MEASURING DEVICE

Based on the principle of laser scattered light, the SMG200M can measure particle mass concentrations up to 250 mg / m³ with a particle size of 0.04 µm to 10 µm. Thanks to its robustness for mobile use, the device can withstand media temperatures of up to 500 °C and allows precise measurements up to a dew point of 80 °C. The measured data can be displayed both graphically and numerically on the touch display and can be stored locally or on a separate USB stick for further analysis. Easy handling, low maintenance and an internal log function make the device a very user-friendly measuring device. New features and types of particles are installed using the update function and can then be unlocked.

PRODUCT DETAILS



Graphic and Numeric display

The measured values can be displayed either graphically or numerically including maximum, minimum, mean value and standard deviation.



extensive Data logger function

The data logger allows to store all parameters. These can be copied directly from the device to a USB stick.



Qualifiable for different particle types

Existing particle types are easy to unlock. Other types of particles can be qualified by the user or the manufacturer.



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TECHNICAL DATA

Measuring range

Particle size	0,04 ... 10 µm
Measuring range	0 ... 250 mg/m ³
Measurement accuracy	0 ... 4 mg/m ³ ± 0,2 mg/m ³ > 4 mg/m ³ ± 5 % of MV
Precision	≤ ± 3 %
Reference	DEHS

Particle flow

Sampling	hot-extractive (100 °C)
Dew point	≤ 80 °C
Media temp.	< 500 °C at probe tip
Flow	2,88 NI/min ± 5 %
Pressure at the sampling site	ambient air pressure - 100 hPa + 200 hPa

Operating and storage data

Operating temp.	+ 5 °C bis + 40 °C
Humidity	up to 90 % r. H. not condensing
Storage temp.	- 25 °C to + 65 °C
Operating voltage	230 V AC ± 10 %
Power input	max. 250 VA incl. Probe

Standard scope of delivery

- SMG200M basic device
- Heated gas sampling hose 2m
- Probe tip ET 300/50 angled with cone
- Cleaning kit
- Replacement filter

Features / Functions

Measuring principle	Multichannel- Laser Scattered Light
Interfaces	RS232 USB Type A Bluetooth® Class 1 (100m)
Languages	DE, EN, FR others on request

System times

Time constant	T90 < 15 s incl. Probe (2m)
Warm up time	< 10 min
Zero point duration	15 s
Measuring time	1 ... 30 min selectable

Other parameters

Width	210 mm
High	275 mm
Depth	375 mm
Mass	7,5 kg
Protection class	IP40
Sound pressure level	< 75 dB

Optional scope of delivery

- Heated gas sampling hose 3m
- Probe tip ET 600/50 angled with cone
- Probe tip ET 1000/50 angled with cone
- Probe tip 400 flexible
- Check Pin V2 for check of sensor parameters
- USB-Stick for data storage
- Software

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