SAXON JUNKALOR

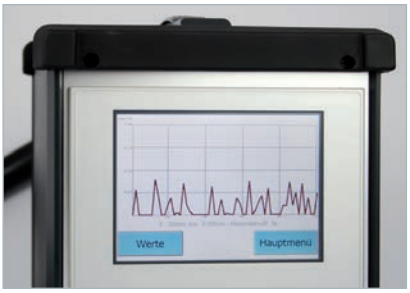
- Multichannel laser scattered light principle
- Precise measurement from 200 µg/m³
- Media temp. up to 500 °C, dew point up to 80 °C
- High contrast color touchscreen
- Remote control and data logger
- Can be qualified for various particle types

# 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 seperate 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/m³ |
| Measurement accuracy | 0 ... 4 mg/m³ ± 0,2 mg/m³<br>> 4 mg/m³ ± 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 Nl/min ± 5 % |
| Pressure at the sampling site | ambient air pressure<br>- 100 hPa + 200 hPa |

## Operating and storage data

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

## Features / Functions

| | |
|---|---|
| Measuring principle | Multichannel-<br>Laser Scattered Light |
| Interfaces | RS232<br>USB Type A<br>Bluetooth® Class 1 (100m) |
| Languages | DE, EN, FR<br>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 |
| Higth | 275 mm |
| Depth | 375 mm |
| Mass | 7,5 kg |
| Protection class | IP40 |
| Sound pressure level | < 75 dB |

## Standard scope of delivery

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

## 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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