

# Nanoparticle measuring instrument

**testo DiSCmini** – the handy and reliable solution for measuring aerosols.

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Monitoring of ambient air in traffic or indoors

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Spot measurements in aerosol-charged workplaces  
(e.g. welding, soldering and in foundries)

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Operation without further operating materials such as  
solvents or radioactive radiation sources

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High-tech in a handy format

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All measurement values easily legible on the display

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#/cm<sup>3</sup>

nm

µm<sup>2</sup>/  
cm<sup>3</sup>

testo DiSCmini is the worldwide smallest particle counter available on the market. It measures the number and mean diameter of nanoparticles based on the electrical charging of aerosols. Since the operation of the portable testo DiSCmini is independent of its position, it can be moved and turned without restrictions during the measurement. This insensitivity to vibrations as well as its small dimensions make the measuring instrument ideal for mobile monitoring and spot measurements in immission-risk workplaces or public areas with high levels of traffic.

The simultaneous recording of particle number concentration and particle size enables you to determine particle surface area (Lung Deposited Surface Area, LDSA). The high measurement frequency of 1 Hz for all three measurement parameters enables the detection of rapid changes in the aerosol.

In permanent operation, the battery lasts 8 hours. All data are stored on an internal SD card and can also be transferred to a computer via USB cable.

## Technical data/accessories

### testo DiSCmini

Portable nanoparticle counter; incl. transport case, protective cover, SD card and SD card reader, extension hose for connection to an impactor, mains power unit, country-specific mains cable, calibration certificate

Order no. 133



#### Accessories

#### Order no.

Mains cable 2 m cable length, Euro plug	78050	
Mains cable 1.8 m cable length, US/JP plug	78051	
Mains cable 2 m cable length, GB plug	78052	
Mains cable 2 m cable length, AU plug	78053	
SD card	0554 8803	
SD card reader	91078	
Mains unit for long-term stationary measurements	6051	
Protective cover	91068	
Adapter for connection of the extension hose to an impactor	91070	
Nozzle for connection of extension hose	91071	
Sampling hose	91072	

#### Technical data

Particle size	10 to 300 nm (modal value)
Particle size absolute	10 to 700 nm
Number concentration	The evaluated particle concentration depends on the particle size distribution and the mean measurement time. The following are typical values: 1000 to 1000000 particles/cm <sup>3</sup>
Accuracy	±30 % typical for size and number
Dimensions	180 x 90 x 42.5 mm
Weight	700 g
Voltage supply	Mains unit, 100 to 120 volt or 200 to 240 volt 50/60 Hz for charging battery
Battery life	Typically 8 hours with a fully charged battery, depending on ambient temperature

#### Ambient conditions for the measurement

Air pressure	800 to 1100 mbar air pressure absolute; $\Delta p$ max. at air inlet: ± 20 mbar
Temperature	10 to +30°C
Humidity	< 90 % relative humidity, non-condensing