



PartSens[®] 4.0

Portable measuring system for particle measurement on surfaces according to ISO 16232 (VDA19) and I4644-9

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The **PartSens** device is a portable measuring system with a wireless measuring head for direct measurement of metallic and non-metallic particles, fibers, dust and other impurities on surfaces.

Mobile design and easy operation make this instrument the perfect solution for companies that want to measure clean surfaces.

The use of oblique light technology according to ISO 14664-9 produces reproducible and highly accurate measurement results.

Complex sampling by gas extraction is eliminated, as are subjective measuring methods (microscopy) or faulty multi-stage procedures (surface rinsing by filter media with subsequent filter analysis).

PartSens determines the particle sizes and the number of particles directly. The measurement result – including the live image – is immediately displayed on the instrument via wireless transmission.

For archiving or later comparison measurements, the data is stored in the particle counter and can be output via an external printer.

The live image allows the detection of type (metallic or non-metallic), position and morphology of the particles.

The system can be used on various surface materials such as stainless, silicon, glass and plastic.



- Portable surface particle counter with wireless measuring head
- Measuring principle according to ISO 14644-9
- Particle measuring range 2µm bis ≥ 3000µm
- Resolution 5µm
- Size and number of metallic and non-metallic particles and fibres
- Particle size allocation according to VDA 19 and ISO 16232 possible
- active measuring area 2.68qcm (19.36 mm x 13.82 mm)
- Measuring time < 10 seconds
- Data output and live on 12" TFT touch screen
- USB additional data backup

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Measuring Head

Housing	plastic
Dimensions of Measuring Head	110 mm x 63 mm x 63 mm (H x W x L)
Applied Surface Area	48 mm x 48 mm (L x W)
Particle Analysis Function	Glancing Light, Optical
Measuring Data Transmission	wireless transmission
Particle Resolution	5 µm
Dimensions of Housing	210 mm x 386 mm x 330 mm (H x L x W)
Supporting surface of Measuring Head	48 mm x 48 mm (L x W)
Particle Readout	Particles / Size Classes acc. to ISO 16232
Particle Detection Range	> 2 µm
Non-metallic particles	> 2 µm - ≥ 3000 µm
Metallic particles	> 25 µm - ≥ 3000µm
Fibres	Ø ≤ 15 µm
Particle Alarm Limits	Flexible settings
Data storage	Data storage up to 1000 data records
Readout	12" touch Screen, USB (csv file), Optional Protocol Printout
Operating Temperature Range	5°C to +30°C
Storage Temperature Range	-20°C to +60°C
Power Supply	AC Input 100-240V AC-1A 50/60Hz DC Output 12V 3A
Video Display Format	HDMI

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