

SMG100

precise Dust Measuring Device for industrial Application



- industrial dust measuring device for particle mass concentration at mobile operation
- hot-extractive / cold-extractive sampling at gas temperatures up to 400°C (752 °F)
- low wear and simple maintenance by modern light scatter technology
- high-contrast color touch screen, intuitive handling
- RS232 / Bluetooth for communication with computer

applications

- chemical, metal-working and metal-conditioning industry
- industrial furnace production, filter monitoring
- combustion machines
- bio technology / bio energy
- research & development

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TECHNICAL DATA

Measure Ranges:

particle dimensions	0.1 ... <10µm	
measure range	5 ... 150 mg/m ³	≤ ±5% of end of range
	150 ... 500mg/m ³	≤ ±10% of end of range
reference	normalized on DEHS, others on request	

Particle Flow:

media temperature	< 400°C (< 752°F)
dew point	< 70°C (< 158°F)
probe	hot-extractive / cold-extractive; isokinetic

Repeatability

≤ ±3%

System Times

response time	T ₉₀ <15s (at 3m probe)
heating time	<10min
zero point calibration	20s

Principle of Measurement

internal functions	multichannel light scatter measurement flushing air generator flow and error monitoring
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Interfaces

digital output:	RS 232
digital wireless:	Bluetooth class 1

Features

language	german / english
handling	touch sensitive color display
functions	automatic zero point internal system and error watching wireless data forwarding

operation temperature	5 - 40 °C (41 °F – 104 °F)
humidity	up to 95 %, non-condensing

Dimensions

205 x 280 x 365mm³

mass

7.5kg (16.5lbs)

degree of protection

IP40

Power Supply

230 VAC; Pmax 250VA (with probe)

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A SUCCESSFUL NAME – A LONG TRADITION

SAXON Junkalor is a privately owned high-tech company with many years of experience in the field of metrology. In the 100-plus years since its establishment the company has developed into a European leading specialist in gas and particle analysis. Junkalor masters physics and technique of gas and particle measurement from sensing device to complete analyzer.