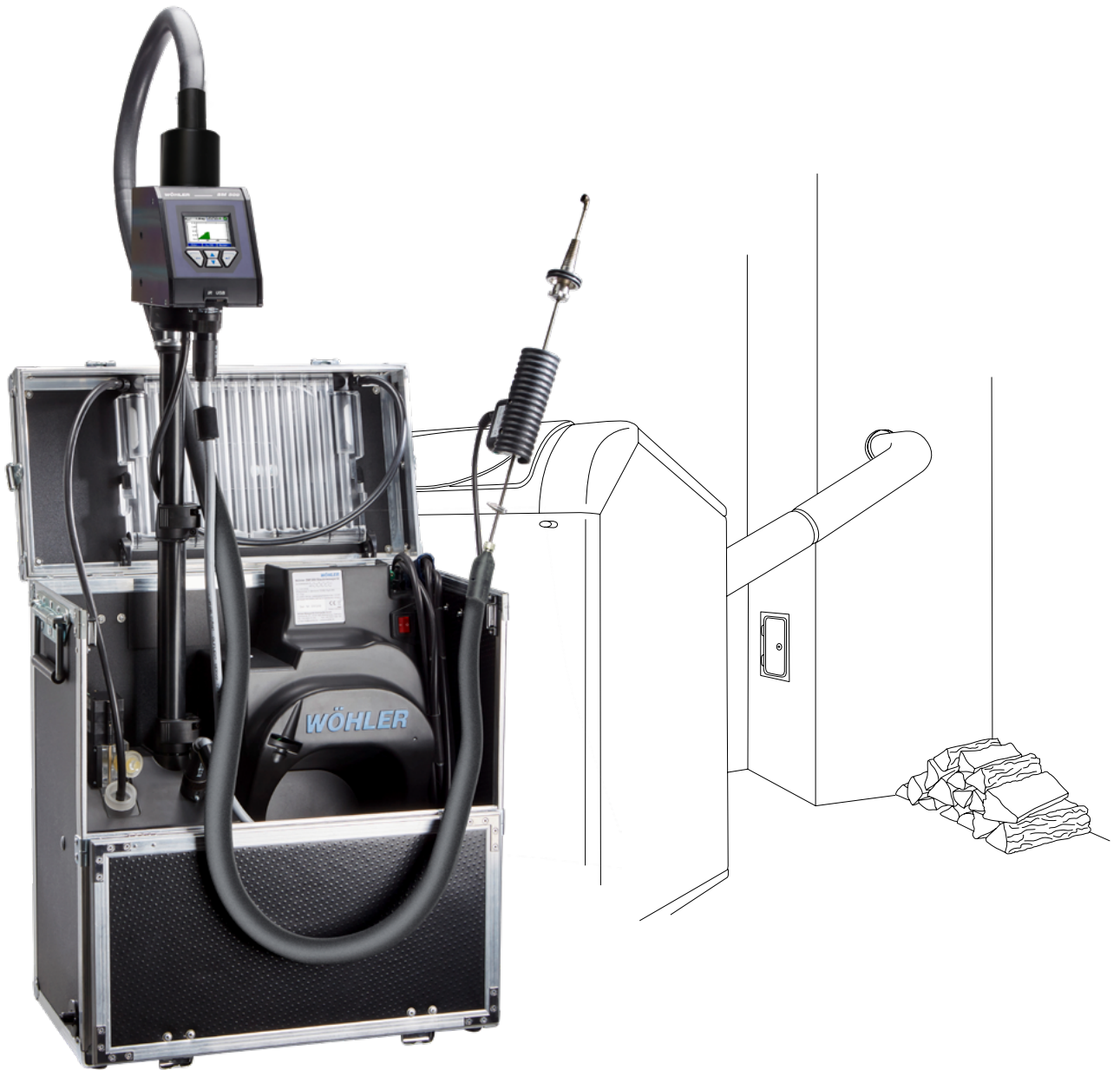


WÖHLER



WÖHLER SM 500 SUSPENDED PARTICULATE ANALYZER

Even the finest cannot escape.

The Measure of Technology



Made in
Germany

Wöhler SM 500

Suspended Particulate Analyzer

The latest innovation in total Suspended Particulate Matter (SPM) measurement

The world's first multi-functional Analyzer for onsite mass concentration measurements of total suspended particulate matter in flue gas, O₂ and CO, draft and stack temperature. The Wöhler SM 500 Analyzer will give you immediate readings. Laboratory based analysis becomes superfluous.

The all new TÜV certified technology allows onsite mass concentration measurements on all wood fired appliances. Mass concentration limits as low as 20 mg/m³ (maximum emission rate of wood stoves in Germany) can accurately be verified. The simple user interface and the technician-friendly 4

button key pad make your work fast and accurate. The brilliant full color LED display shows the mass concentration and all combustion values on one screen. After the sampling process the instrument automatically calculates all results to allow compliance testing for solid fuels.



ONSITE
MEASUREMENT
AND
VERIFICATION



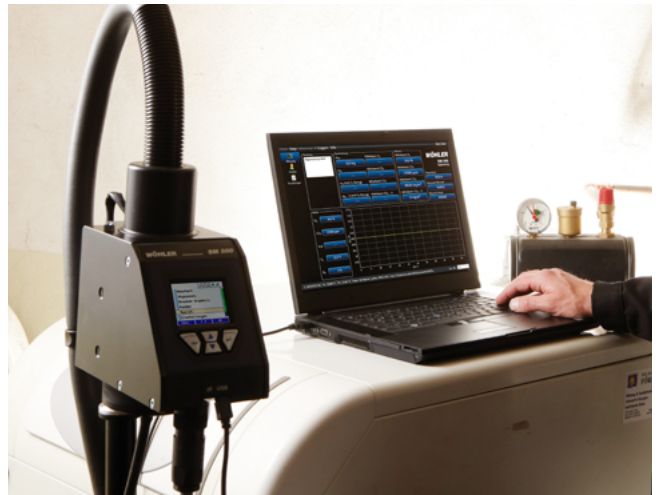
USB

- ▶ The operating unit with display can be set to the personal work height – for the best-possible operating and working conditions
- ▶ Precise digital mass scale for real gravimetric analysis
- ▶ Simple maintenance
- ▶ Analyze O₂ and CO concentrations in flue gas
- ▶ Graphical display of values during analysis
- ▶ USB port to transfer data
- ▶ Wöhler SM 500 software for data processing



Onsite Measurement and verification

Simple as that: adjust the display unit to your working level, measure, take results. All aspects of the instrument are user friendly designed. The Wöhler SM 500 accomplishes everything for you.



All in one: O₂, CO, temperature and draft measurement inclusive

The basic instrument kit comes with a fully featured, integrated flue gas Analyzer for O₂, CO, stack temperature and draft to give a complete analysis and verification onsite.



High precision digital mass scale

With the Wöhler SM 500 Suspended Particulate Analyzer you can verify for the first time onsite mass concentration limits as low as 20 mg/m³ according to German environmental protection standards (1. BlmSchV). The results of the measurements and verifications can be displayed or printed on the portable Wöhler TD 100 Thermal Fast Printer.



Real time graphic function display

The simple menu is intuitive by design. The technician friendly 4 button key pad allows real time graphic function display and user selectable readings. The brilliant full color LED display is even visible in a dark environment.

The all new TUV certified technology allows onsite mass concentration measurements on all solid fuel fired appliances. Mass concentration limits as low as 20 mg/m³ (maximum emission rate of wood stoves in Germany) can accurately be verified.

The simple user interface and the technician-friendly 4 button key pad make your work fast and accurate. The brilliant full color LED display shows the mass concentration and all combustion values on one screen. After the sampling process the instrument automatically calculates all results to allow compliance testing for solid fuels.



✂ Application

- ▶ All in one: Particulate matter measurement and flue gas analysis in a single Analyzer
- ▶ On-the-spot analysis and evaluation
- ▶ Data transfer via USB

⚙ Functionality

- ▶ Brilliant, high-intensity graphic display – all readings at a glance and easily read – even in dark rooms, zoom function
- ▶ Provides graphic display of current values as well as their progression during the analysis
- ▶ Simple and intuitive 4-key operation
- ▶ Adjustable to individual working height

🔑 Safety/reliability

- ▶ Precision mass scale unit – facilitates true on-the-spot gravimetric analysis and evaluation
- ▶ Simple to clean – no-fuss
- ▶ Integrated filter monitoring
- ▶ Sensor replacement – user-friendly
- ▶ 3-fold device diagnostics

📁 Data transfer/management

- ▶ USB port to transfer data to PC/notebook etc.
- ▶ Software Wöhler SM 500 for data processing and management

🚫 TÜV-tested and approved

- ▶ Levels I and II to 1st BImSchV
- ▶ Incl. all solid fuels
- ▶ 20 to 1000 mg/m³ flue gas

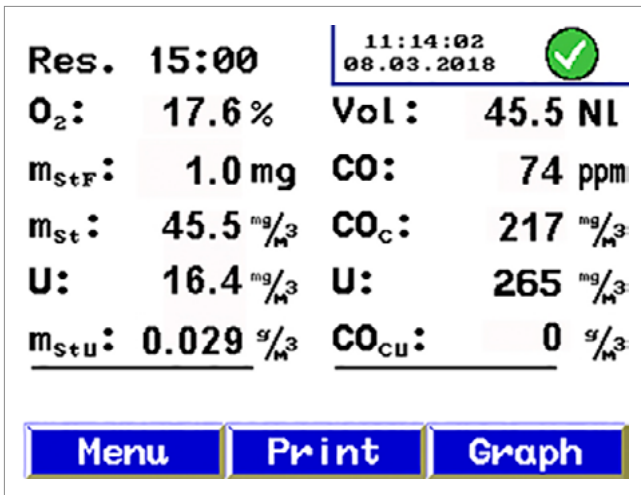


Technical data

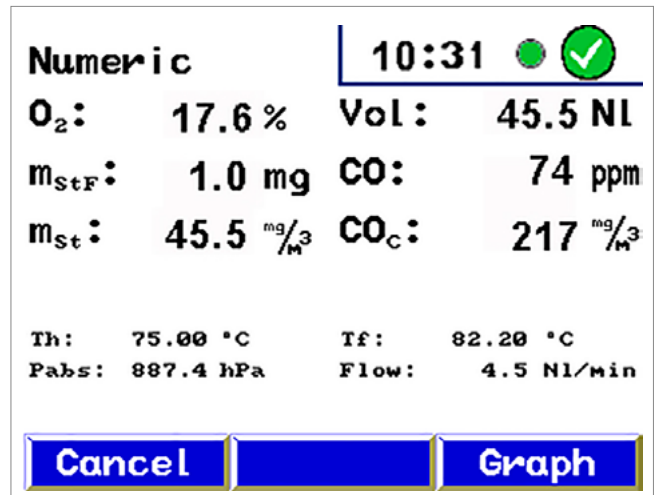
Range	Suspended particulate matter concentration	0...1.000 mg/m ³
	CO concentration	0...100.000 Vol.-ppm
Flue gas temperature		-20...800 °C

Detailed technical data can be found under www.woehler-international.com/P_121.dl

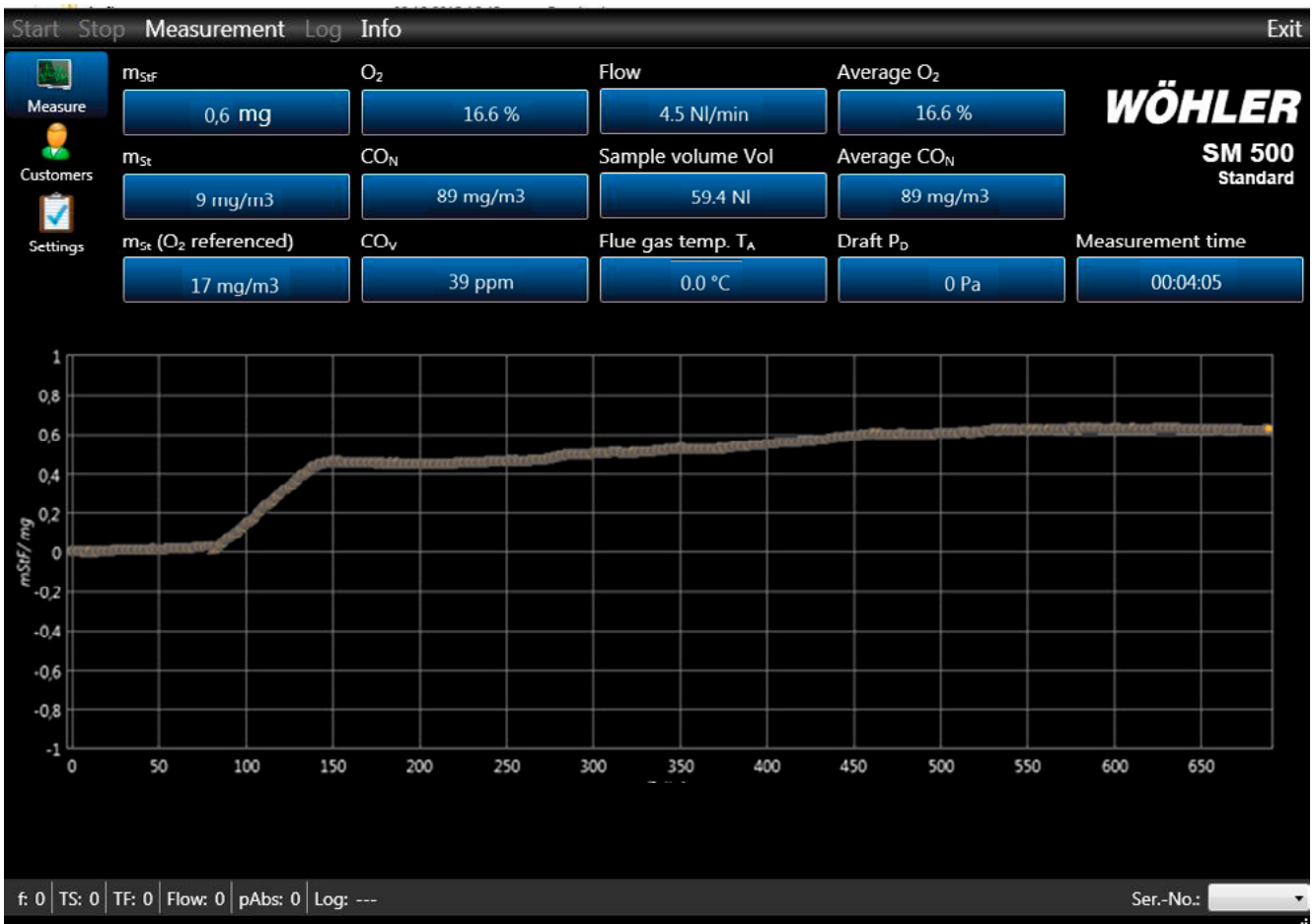




Results Display
 Numeric representation of mean value throughout the whole measurement process. It is also possible to switch to the graphic display.



Display during the analysis
 Measurement values are displayed during the TSPM mass concentration measurement. The operator is also able to switch between numeric and graphic representations throughout.



Data transfer
 All measurement data and online readings can be transferred to a computer by USB connection. The Wöhler SM 500 computer software package allows extensive data analysis and display.















Basic set

		Wöhler SM 500 suspended particulate analyzer
Scope of delivery	Wöhler SM 500 suspended particulate analyzer	•
	Auxiliary probe heater	•
	Additionally 450 mm probe	•
	Pack with 10 fi lter cartridges	•
	Cleaning tools	•
	PC-Software	•
	Article no.	8949 O

• = included

Accessories

Article no.

	Wöhler TD 100 Thermal Fast Printer Infrared printer with 1 roll thermal paper and four batteries	4160 I
	Thermal Paper for Thermal Printer Wöhler TD 100 57 mm width, 12 m long / roll, 10 rolls	4145 I
	Auxiliary Probe Heater for long term measurement to avoid condensation	23201 J
	Heated Probe Holder to avoid condensate formation with cold probe	8921 J
	Extension Hose for laboratory measurements 1 m	8922 J
	Tripod Set extended radius up to approx. 4 m With the tripod the Wöhler SM 500 display unit can be placed outside the case during measurements. Necessary for hard to reach measuring openings.	8919 J
	Backpack Carry-On	8911 J
	Air puffer	8918 J
	Filter Cartridges 10 pcs.	8916 O
	Coarse filter vlies 10 pcs. per unit	9503 K
	Wadding Filters 25 g	6052 K
	Spare Parts Kit 2 rubber seals for the sampling probe and 28 O-rings of a different size	8933 K
	Cleaning tool for probe and mass scale unit	8909 K
	Probe holder stainless steel	23674 J

Order Form

Product	Article no.	Qty.
Basic set: Wöhler SM 500 suspended particulate analyzer	8949 O	

Billing address/customer	Delivery address (if different to billing address)						
Company _____	Company _____						
Name _____	Name _____						
Street/house no. _____	Street/house no. _____						
ZIP code/City _____	ZIP code/City _____						
Country _____	Country _____						
Telephone _____	Fax _____						
Mobile _____	E-Mail _____						
Customer number <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>							
Date _____	Signature or company stamp _____						

WÖHLER

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 www.woehler-international.com

Your contact