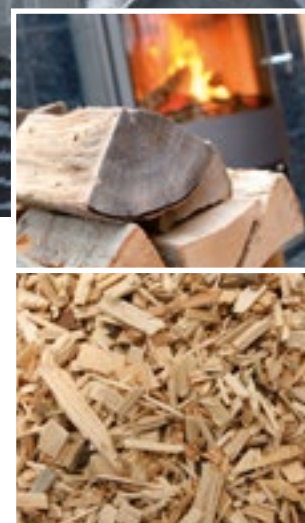


# Dust measuring instrument STM 225

The compact solution for particulate matter measurement.

**Certified suitability for stages 1 + 2, including 150 mg/m<sup>3</sup>**



MULTILYZER NG



MULTILYZER St6



AFRISO

Compact. Complete. Free from wear.

# The practical solution for measurements of particulate matter on solid-fuel systems

The increasing number of solid fuel systems such as systems fired with pellets or wood chips along with environmental considerations has brought about new and more stringent emission protection regulations. AFRISO provides chimney sweeps, heating system engineers, service technicians and other professionals with the right equipment to meet the new challenges involved in measuring the emissions of solid fuel systems.

The new AFRISO dust measuring instrument STM 225 was specially designed for mobile use on heating systems; it is approved for stages 1 and 2 as per German regulations, including limit value monitoring 150 mg/m<sup>3</sup> for old systems. The compact, robust measuring system determines the dust concentration by means of a state-of-the-art optical scattered light method. This measuring principle provides for fast and accurate measuring results and also allows for real-time diagnostics – independent of external influences such as shocks and impacts. A great feature considering rough field service conditions.

## Description

Robust, compact measuring system for mobile use, consisting of measuring instrument and sampling probe for the flue gas channel of the heating system. The AFRISO dust measuring instrument determines the particle/dust concentration using a state-of-the-art optical measuring principle without consumables. The particle/dust concentration is then displayed as a mean value (duration: 15 minutes). Continuous measurements are also possible. The sampling probe can also be used for tightness tests of the entire gas path.



## i

The European Renewables Directive 2009/28/EC requires EU member states to produce an increasing proportion of their energy consumption from renewable sources. As a result, the proportion of solid fuel systems such as systems fired with pellets or wood chips is on the rise – and so is the necessity to check the emissions of such systems for compliance with the respective emission protection regulations.

## Technical specifications

<b>Measuring range</b>	0/300 mg/m <sup>3</sup> dust
<b>Measured values</b> (via Multilyzer NG/STe)	O <sub>2</sub> : 0/21 % by volume CO <sub>H2</sub> : 0/4,000 ppm CO: 0/20,000 ppm
<b>Measuring resolution</b>	0.1 mg/m <sup>3</sup>
<b>Operating temperature range</b>	Ambient: 5/40 °C Storage: -20/+50 °C
<b>Housing (W x H x D)</b>	190 x 275 x 330 mm
<b>Weight</b>	Approx. 7.5 kg

<b>Degree of protection</b>	IP 40
<b>Display</b>	Colour touch display, 5.7" (14.5 cm)
<b>Supply voltage</b>	AC 230 V, 50 Hz
<b>Interfaces</b>	USB, Bluetooth
<b>Approvals</b>	Certified suitability for stages 1 + 2, including 150 mg/m <sup>3</sup>
<b>Transport bag</b>	Light-weight heavy-duty with carrying strap and handle

## Highlights

# There are many reasons to opt for the best ...

### + Technology:

Optical measuring principle

### + Future-proof:

Free software updates

### + Measuring results:

Absolutely reliable measuring results, not influenced by interference (e.g. shocks)

### + Traceability:

Permanent indication of the current measured values

### + Operation:

Intuitive via menu-guided measuring sequences

### + Time savings:

Short setup time due to fast heat-up and calibration phase

### + Easy to read:

Visualisation via 5.7" colour touch display



MULTILYZER NG



MULTILYZER STe

+ ...or "just" because of the many options for measuring particulate matter emissions of solid fuel systems.

### + Connectivity:

Excellent connectivity of flue gas analyser MULTILYZER NG/STe via Bluetooth/Bluetooth Smart®



## Back



Best price/performance ratio

# Dust measuring instrument-packages 2014

## Package 1

Dust measuring instrument  
**STM 225** without MULTILYZER NG

Scope of delivery:

- Dust measuring instrument STM 225
- Calibration report
- Zero point filter
- Mains plug
- Transport bag
- Infiltec fine filter (5 pieces)
- Teflon membrane (5 pieces)
- Sampling system with heated line, connection line and condensate filter cartridge KFP
- Cleaning kit consisting of 5 cleaning swabs, 5 cleaning cloths and 1 cleaning brush



You can use your existing MULTILYZER NG with O<sub>2</sub> / CO<sub>4,000</sub> / CO<sub>20,000</sub>-cells and Bluetooth

## Package 2

Dust measuring instrument  
**STM 225** with MULTILYZER NG

Scope of delivery STM like package 1

MULTILYZER NG including:

- With O<sub>2</sub>, CO<sub>2</sub>, CO<sub>H2</sub>, CO<sub>20,000</sub>, T gas, T air, draft, differential pressure and Bluetooth interface BTS-M
- Calibration report
- Power supply unit
- Protective sleeve for device with magnets
- Infiltec fine filter (5 pieces)
- Ambient air probe



## Package 3

Dust measuring instrument  
**STM 225** with MULTILYZER STe

Scope of delivery STM like package 1

MULTILYZER STe including:

- With O<sub>2</sub>, CO<sub>2</sub>, CO<sub>H2</sub>, CO<sub>20,000</sub>, T gas, T air, draft, differential pressure and Bluetooth Smart interface
- Eco sensor with extended service life and short calibration phase
- Calibration report
- Protective sleeve for device with magnets
- Power supply unit
- Infiltec fine filter (5 pieces)
- Ambient air probe



Package 1



Package 2



Package 3

	Package 1	Package 2	Package 3
Dust measuring instrument STM 225	•	•	•
MULTILYZER NG		•	
MULTILYZER STe			•
Part no.	70200	802014	902014
Price	<b>5,595.00</b>	<b>6,745.00</b>	<b>7,560.00</b>
Monthly leasing rate (term 36 months)	<b>172.89</b>	<b>208.42</b>	<b>239.00</b>

All prices in €, excluding applicable VAT. Subject to our Terms and Conditions.



My binding order:

Dust measuring instrument packages 2014		Part no.	Price	Number
<b>Package 1:</b> Dust measuring instrument STM 225 <b>without</b> MULTILYZER NG		70200	5,595. <sup>00</sup>	
<b>Package 2:</b> Dust measuring instrument STM 225 <b>with</b> MULTILYZER NG		802014	6,745. <sup>00</sup>	
<b>Package 3:</b> Dust measuring instrument STM 225 <b>with</b> MULTILYZER STe		902014	7,560. <sup>00</sup>	
Options/accessories		Part no.	Price	Number
Sampling probe, straight, 280 mm		Suitable for STM 225	70202	119. <sup>00</sup>
Sampling probe, straight, 400 mm			70211	168. <sup>00</sup>
Cleaning kit, consisting of 10 cleaning swabs, 10 cleaning cloths, 2 cleaning brushes			70210	11. <sup>85</sup>
Hand-operated ball pump with connection hose			511018	19. <sup>80</sup>
Infiltec fine filter (price per piece € 4.75, PU 5 pieces) as pump filter			511003	23. <sup>70</sup>
Base handle AWS-B for interchangeable probes with compensation line and draft connection, without KFP		Suitable for MULTILYZER NG/STe	500295	112. <sup>00</sup>
Condensate filter cartridge KFP			500190	72. <sup>00</sup>
Interchangeable probe AWS-S 300 mm			570074	64. <sup>00</sup>
Interchangeable probe AWS-S 180 mm			570073	82. <sup>00</sup>
Annular gap probe AWS-R			570083	73. <sup>00</sup>
Multi-hole probe AWS/M			570080	78. <sup>00</sup>
Flexible probe AWS-F 400 mm			570079	131. <sup>00</sup>
Combustion air probe TFB-VL100 M, with magnetic holder			500141	125. <sup>00</sup>
Combustion air probe TFB-VL-1 200 mm			500147	104.00
Teflon membrane (10 pieces)			511004	15. <sup>60</sup>
Thermal printer EUROprinter BLE, Bluetooth Smart and infrared interface		523525	329. <sup>00</sup>	
Thermal printer EUROprinter, infrared interface		522394	228. <sup>00</sup>	
<b>Total</b>				

**Maintenance contract for MULTILYZER NG/STe**

Annual service for reliable operation of your measuring instrument: Full function test, device calibration, inspection and, if necessary, replacement of the O<sub>2</sub> and CO measuring cell. The basic maintenance contract can be extended to cover additional measuring cells.

**Included:**

- Test bench check / adjustment of gas temperature, air temperature, draft, differential pressure
- Software updates
- Basic cleaning of housing
- Cleaning of sensor block and pump
- Check of all seals and hose connections
- Check of PCB
- Cleaning and check of controls, connectors and probe elements
- Service and inspection certificate

Please send me a leasing offer.

Company

Department

Name

Post Code City

E-mail

Street

Telephone

Fax

Date

Signature

## Accessories



**Sampling probe, straight**  
280 mm, for STM 225  
Part no. 70202

119.00

NEW

### Thermal printer EUROprinter BLE

With Bluetooth Smart interface  
and infrared interface  
Part no. 523525

329.00



**Thermal printer  
EUROprinter**  
Infrared interface  
Part no. 522394

228.00



### Combustion air probe TFB-VL 100 MG

With magnetic holder and rubber cone  
Part no. 500141.1

125.00

### Cleaning kit

Consisting of 10 cleaning  
swabs, 10 cleaning  
cloths, 2 cleaning brushes  
Part no. 70210

11.85



## Accessories MULTILYZER NG/STe:

### Interchangeable probes, suitable for base handle



### Base handle AWS-B for interchangeable probes

With compensation line and draft  
connection, without condensate  
filter cartridge KFP  
Part no. 500295

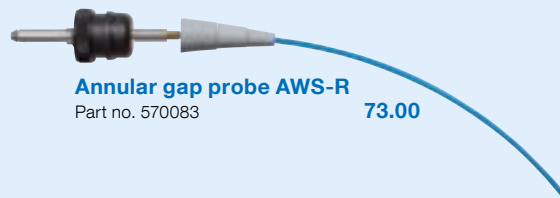
112.00



### Interchangeable probe AWS-S

Suitable for base handle,  
300 mm, Ø 8 mm  
Part no. 570074

64.00



### Annular gap probe AWS-R

Part no. 570083

73.00



### Multi-hole probe AWS-M

Length-adjustable 60 - 170 mm, Ø 8 mm  
Part no. 570080

75.00



### Condensate filter cartridge KFP

Part no. 500190

72.00



### Interchangeable probe AWS-S

180 mm, Ø8 mm

Part no. 570073

82.00

All prices in €, excluding applicable VAT. Subject to our Terms and Conditions.

**i** Easy operation with  
menu-guided measurements:  
[www.einfach-stark.net/stm225](http://www.einfach-stark.net/stm225)



Your dealer

Ident-Nr. 991517\_06777\_03/14



Technology for Environmental Protection

Measuring. Controlling. Monitoring.



**AFRISO**