



# Flue gas analyser MAXILYZER NG Plus



- Separate measurement programmes for flue gas analysis, pressure and temperature
- Gas treatment for reproducible gas analyses
- Sensor equipment with up to six measuring cells possible
- Peltier gas cooler to avoid the formation of condensate in the flue gas analyser



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**Application** For universal use at small and medium-sized oil, gas and pellets fired systems according to the German Federal Immission Act as well as for CO concentration safety checks at gas fired systems. Ideally suited for servicing solid fuel systems (e.g. log wood fired systems with short-term CO peaks up to 40,000 ppm) or bivalent, modulating CHP systems. For precise gas analyses during long-term measurements or at different sites subject to pollution and condensate in the flue gas. Suitable for measurements of highly water-soluble gases (e.g. NO<sub>2</sub> and SO<sub>2</sub>) since the measured gas is cooled and filtered.

**Description** Flue gas analyser with integrated thermal printer and a gas treatment system in a dust- and splash water-protected plastic housing. A graphical LC display allows you to display five or ten measured values. Hold and zoom functions, core search, conversion of units and graphical representation of the measured values as per combustion chart ensure maximum ease of use. With sensor status diagnostics, CO limit value monitoring with sensor protection function. MAXILYZER NG Plus can be equipped with up to six measuring cells (O<sub>2</sub>, CO<sub>H2</sub>, CO<sub>40,000</sub>, NO, NO<sub>2</sub>, SO<sub>2</sub>). Calculated parameters: CO undiluted (air-free), lambda, CO<sub>2</sub>, eta efficiency, flue gas loss qA. The gas to be measured is cooled by means of a Peltier cooler and filtered by means of a fine particulate filter. An optional Bluetooth interface is available for communication with, for example, a PC or a netbook.

## Technical specifications

### Measuring ranges (measured values)

**Flue gas temperature/differential temperature**  
0/1,000 °C

**Air temperature/combustion air temperature**  
-20/+200 °C

**Draft**  
± 70 hPa

**Differential pressure**  
± 150 hPa

**O<sub>2</sub>**  
0/21 % by volume

**CO<sub>H2</sub>**  
0/4,000 ppm

**CO**  
0/40,000 ppm

**NO**  
0/5,000 ppm

**NO<sub>2</sub>**  
0/500 ppm

**SO<sub>2</sub>**  
0/5,000 ppm

**Indication (calculated values)**  
CO<sub>2</sub>, CO undiluted (air free), lambda, eta efficiency, flue gas losses qA

### Operating temperature range

Ambient: +5/+40 °C  
Storage: -20/+50 °C

**Weight (housing)**  
6.9 kg

**Dimensions**  
W x H x D 410 x 175 x 330 mm

**Display**  
LCD, W x H: 60 x 80 mm

**Degree of protection**  
IP 65 (when closed)

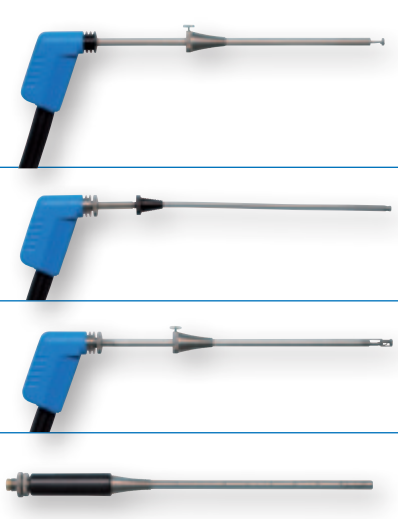


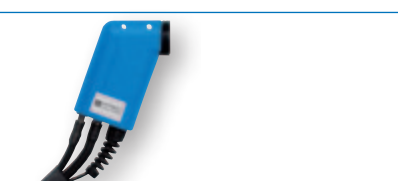


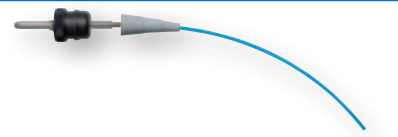

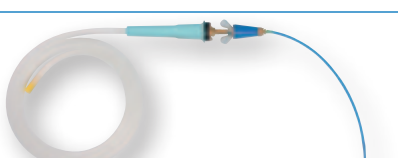
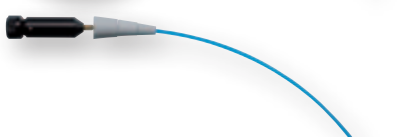

**Connection draft**  
Draft/pressure: Ø 7 mm  
Gas: Ø 8 mm

**Supply voltage**  
Gas analysis:  
NiMH battery (6 V/4.5 Ah) or  
mains operation (230 V)  
Cooler and heated line:  
mains operation (230 V)

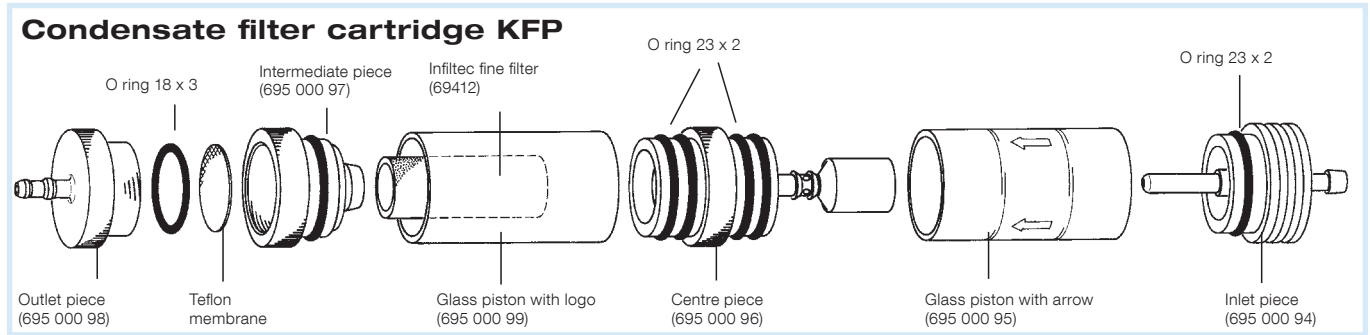
**Hours of operation**  
24 hours

**Memory**  
Up to 100 memory blocks

# Probes for EUROLYZER ST / STe and MULTILYZER NG

DG: H	Part	Description	Part no.	Price €
	<b>Individual probes</b>	<b>Flue gas combination probe standard</b>	300 mm, without draft connection, without condensate filter cartridge	<b>69399</b>
			170 mm, without draft connection, without condensate filter cartridge	<b>69482</b>
			300 mm, with draft connection, without condensate filter cartridge	<b>69387</b>
		<b>Flue gas combination probe flexible</b>	With draft connection, without condensate filter cartridge	<b>69122</b>
	<b>Flue gas combination probe exclusive</b>	With removable plug-on pipe and draft connection, without condensate filter cartridge	<b>69437</b>	
	<b>Multi-hole probe</b> can be plugged onto flue gas probe exclusive	Length-adjustable from 0–190 mm, without condensate filter cartridge	<b>69422</b>	
<b>Modular probe system</b>				
	<b>Base handle for interchangeable probes</b>	With compensation line and draft connection, without condensate filter cartridge	<b>70072</b>	
	<b>Interchangeable probe</b> suitable for base handle	100 mm, Ø 8 mm	<b>70084</b>	
		180 mm, Ø 8 mm	<b>70073</b>	
		300 mm, Ø 8 mm	<b>70074</b>	
		500 mm, Ø 8 mm	70075	
		750 mm, Ø 8 mm	70076	
		1,000 mm, Ø 8 mm	70077	
		1,500 mm, Ø 8 mm	70078	
	<b>Multi-hole probe</b> suitable for base handle	Length-adjustable 60–170 mm, Ø 8 mm	<b>70080</b>	
	<b>Annular gap probe</b>	For measuring CO and O <sub>2</sub> concentrations in the annular gap of double-walled chimneys of gas furnaces	<b>70083</b>	
	<b>Flexible probe</b>	400 mm, Ø 9 mm	<b>70079</b>	
<b>Universal plug-in units</b>				
	<b>Annular gap probe</b>	2 m hose length with connection piece	<b>69392</b>	
	<b>Annular gap probe</b>	Universal, can be plugged onto all flue gas probes	<b>70082</b>	
	<b>Multi-hole probe</b> with connection fitting	Length-adjustable 60–250 mm, without condensate filter cartridge	<b>69580A</b>	

# Accessories and spare parts for EUROLYZER ST / STe and MULTILYZER NG



DG: H	Part no.	Price €
<b>Condensate filter cartridge KFP</b>	<b>69411</b>	
<b>Infiltec fine filter</b> (5 pieces)	<b>69412</b>	
<b>Assortment of O rings, sorted</b>	<b>69427</b>	

DG: H	Part no.	Price €
<b>Inlet piece</b>	<b>695 000 94</b>	
<b>Glass piston with arrow</b>	<b>695 000 95</b>	
<b>Centre piece</b>	<b>695 000 96</b>	
<b>Intermediate piece</b>	<b>695 000 97</b>	
<b>Outlet piece</b>	<b>695 000 98</b>	
<b>Glass piston with logo</b>	<b>695 000 99</b>	
<b>Teflon membrane</b> (10 pieces)	<b>69206</b>	


DG: H	Part	Description	Part no.	Price €
	<b>Spike probe</b>	Also suitable for temperature measuring instruments TM	<b>69868</b>	
	<b>Air, gas, liquid probe</b>	Also suitable for temperature measuring instruments TM	<b>69867</b>	
	<b>Surface probe</b>	Also suitable for temperature measuring instruments TM	<b>69866</b>	
	<b>HT probe</b>	700 mm, also suitable for temperature measuring instruments TM	69853	
	<b>HT probe</b>	1,000 mm, also suitable for temperature measuring instruments TM	69854	
	<b>Combustion air probe</b>	200 mm	<b>69428</b>	
		290 mm	<b>69460</b>	
	<b>Combustion air probe</b>	With magnetic holder	<b>69404</b>	
	<b>Combustion air probe</b>	With magnetic holder and rubber cone	<b>69358</b>	
	<b>Ambient air probe</b>	"Stub probe" design	<b>69359</b>	
	<b>Clamp probe</b>		<b>69011</b>	





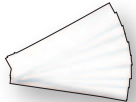


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Due to the standardised interfaces, all AFRISO temperature probes can be used with all BlueLine devices:

- EUROLYZER ST      Page 532      ▪ MULTILYZER NG      Page 536      ▪ MAXILYZER NG Plus      Page 540
- EUROLYZER STe      Page 534      ▪ MAXILYZER NG      Page 538      ▪ TM7/TMD7      Page 546

# Accessories and spare parts for EUROLYZER ST / STe and MULTILYZER NG

DG: H	Part	Description	Part no.	Price €
	<b>Clamping cone</b>	Stainless steel, hole Ø 8.8 mm, suitable for EP-Check	<b>68979</b>	
	<b>Clamping cone</b>	Stainless steel, hole Ø 8.0 mm, suitable for flue gas probe	<b>68978</b>	
	<b>Clamping cone</b>	Stainless steel, hole Ø 6.0 mm, suitable for combustion air probe	<b>68977</b>	
	<b>Clamping cone</b>	Teflon, hole Ø 8.0 mm, suitable for flue gas probe	<b>68980</b>	
	<b>Clamping cone</b>	PDM, hole Ø 5.0 mm, suitable for combustion air probe	<b>68986</b>	
	<b>Rubber cones</b>	3 pieces, Ø 5.0 mm, suitable for combustion air probe	<b>68981</b>	

DG: H	Part	Description	Part no.	Price €
	<b>Aluminium case</b>		<b>69032</b>	
	<b>Aluminium case professional</b>	Robust system case with 3 drawers and convenient tool holders for probes	<b>69030</b>	
	<b>Thermal printer EUROprinter</b>		<b>69480</b>	
	<b>Printer paper for EUROprinter</b>	5 rolls	<b>69481</b>	
	<b>Printer paper for EUROprinter</b>	Self-adhesive, 1 roll	<b>69033</b>	
	<b>Printer paper for HP printer</b>	5 rolls	<b>69421</b>	
	<b>Soot pump</b>	With soot comparison scale and filter paper	<b>69581</b>	
	<b>Filter paper for soot pumps</b>	200 pieces	<b>68400</b>	
	<b>Soot comparison scale</b>		<b>68300</b>	
	<b>Plugs for measurement holes (adhesive label)</b>	10 pieces	<b>61099</b>	
	<b>Software Eurosoft</b>		<b>69391</b>	
	<b>Hose kit 4 Pa test</b>		<b>68982</b>	

**Interfaces**

USB, Bluetooth

**Approvals**BlmSchV, KÜO (TÜV ByRgG 247),  
EN 50379-2**Scope of delivery**Maxilyzer NG Plus with max. 6 cells (O<sub>2</sub>, CO<sub>H2</sub>, CO<sub>40,000</sub>, NO, NO<sub>2</sub>, SO<sub>2</sub>), calibration report, case with charger, ambient air probe, flue gas combination probe, connection kit for differential pressure measurement

DG: H	Part no.	Price €
<b>MAXILYZER NG Plus</b> O <sub>2</sub> , CO <sub>H2</sub> , NO, draft, differential pressure	69239	
<b>MAXILYZER NG Plus</b> O <sub>2</sub> , CO <sub>H2</sub> , NO, SO <sub>2</sub> , draft, differential pressure	69240	
<b>MAXILYZER NG Plus</b> O <sub>2</sub> , CO <sub>H2</sub> , NO, CO <sub>40,000</sub> , NO <sub>2</sub> , draft, differential pressure	69241	
<b>MAXILYZER NG Plus</b> O <sub>2</sub> , CO <sub>H2</sub> , NO, SO <sub>2</sub> , CO <sub>40,000</sub> , NO <sub>2</sub> , draft, differential pressure	69242	
<b>MAXILYZER NG Plus</b> O <sub>2</sub> , CO <sub>H2</sub> , CO <sub>40,000</sub> , draft, differential pressure	69243	
<b>MAXILYZER NG Plus</b> O <sub>2</sub> , CO <sub>H2</sub> , NO, CO <sub>40,000</sub> , draft, differential pressure	69244	
Options: Immediate installation when instrument is ordered		
<b>Bluetooth</b>	69236	
<b>Mean value programme for solid fuels in the case of solid fuel systems</b>	68984	
<b>CO measuring cell: CO-40,000 ppm</b>	69141	
<b>SO<sub>2</sub> measuring cell: SO<sub>2</sub>-2,000 ppm</b>	69142	
Accessories		
<b>Gas sampling probe PSP 4000: portable, heated</b>	68900	
<b>Heated line: 5 m*</b>	69476	
<b>Heated line: 3 m*</b>	69478	
<b>Printer paper (5 rolls)</b>	69481	
<b>Please enquire for maintenance contracts.</b>		

\* Probe tube 300 mm and cone included.

**i**See page 539  
for gas treatment system  
spare parts and design.