MULTILλYZER® STe

Flue gas Analyzer



BlueLine®

















Flue gas analyser for measuring small and medium-sized oil, gas and solid fuels fired heating systems according to the German Federal Immission Act and for CO concentration safety checks at gas fired systems. Ideal for servicing solid fuel systems (for example, wood fired systems with temporary CO peaks up to 20,000 ppm) or bivalent, modulating combined heating and power plants.

MULTILYZER STe is a portable flue gas analyser with robust protective sleeve and integrated magnet. The large TFT color display allows to show up to 8 measured values. With automatic instrument check during program start and limit value monitoring. The compact design allows the device to be equipped with any combination of up to six measuring cells (0₂, CO_{H2}, CO_{HGH}, NO, NO₂, SO₃). The oxygen ECO sensor has an extended lifetime and is resistant against biogenic fuels.

Calculated parameters: CO undiluted (air-free), lambda, CO,, Eta efficiency, flue gas loss, dew point, temperature difference.

The CO measuring cell is H,-compensated for official measurements. The Datalogger function allows long-term measurements with freely definable intervals. USB, Bluetooth® Smart (BLE), infrared and MicroSD interface are available for communication with other devices, PC or the EUROprinter. The QR - Code function is another way to transfer the measured values via smartphone or tablet to any management software.



Functionality

Measurement of:

- 0, (oxygen)
- CO_{HIGH} (carbon monoxide)
- CO_{H2} (H₂-compensated)
- NO (nitrogen oxide)
- NO, (nitrogen dioxide)
- SO₂ (sulfur dioxide)
- Differential/Draft pressure T_{air} (ambient temperature)
- T_{nax} (flue gas temperature)
- T_{ass}(differential temperature measurement)
- Barometric pressure

Calculation of:

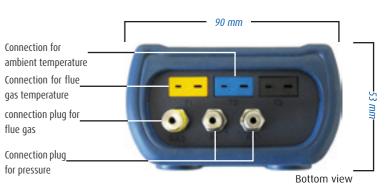
- CO₂ (carbon dioxide)
- CO undiluted
- Difference in temperature
- Combustion efficiency
- Lambda (excess air)
- Ratio (for UK and AU only)
- Flue-gas losses
- CO_{rof} (with O_{2rof} to configure)
- T_{ail} (dewpoint)
- NO_x (NO+NO₂)
- NO_{rof}
- SO_{2ref}

Operation.

The drop-down menu with colored icons appears immediately after activating the MULTILYZER STe. The touch wheel can be used to choose following programs: flue gas analysis, temperature measurement, CO ambient measurement, Pressure measurement, Pitot measurement (option), instrument settings and memory. You confirm your selection with the enter

When using the flue gas analysis function, you will first be asked to make a selection from a list of fuel types. A screen, on which the measured values are clearly shown, will then appear.







Color screen .

The MULTILYZER STe has a 3,5"(8,9 cm) TFT color display with a resolution of 240 x 320 Due to the clever design, everything is put in a convenient and logical place (see which simplifies navigation.

The display's large viewing angle, clarity and backlight ensure that the data and on any other BlueLine® measuring instruments! measurement values displayed are clearly visible under all circumstances.

Easy to use.

pixels. The various measurement menus are each displayed in their own unique color, above). The BlueLine® MULTILYZER STe is very compact and therefore easy to handle and transport. You can make the same high quality demands on the MULTILYZER STe as











Safety ...

Safety and security are important aspects in all BlueLine® measuring instruments. For safety of the occupants/users of the building where the central heating system is located, the MULTILYZER STe offers a special function for measuring the concentration of carbon monoxide in the surrounding air. This will enable you to recognize a malfunction in the central heating system and make repairs in time.

The MULTILYZER STe performs a check when starting up, to ensure proper functioning of your instrument. All sensors are checked, the condition of the battery is displayed and, if the calibration date has been exceeded, a message to this effect will be displayed.

Technical specifications		
0 ₂ (0xygen)		
Range	0 to 21.0 Vol.%	
Ассигасу	± 0.2 Vol.% RDG	
Resolution	0.1 Vol.%	
CO (carbon monoxide) wit	h H ₂ -Compensation	
Range	0 to 4,000 ppm	
A	± 5 ppm (< 50 ppm)	
Accuracy	± 5% RDG (> 50 ppm)	
Resolution	1 ppm	
CO ₂ (carbon dioxide)		
Range	0 to CO ₂ max (depending on fuel)	
Ассигасу	± 0.2 Vol.%	
Resolution	0.1 Vol.%	
Flue gas temperature		
Range	0 to +1.000 °C	
Vectivacy	± 1 °C (0 to +300 °C)	
Accuracy	± 1 % RDG (from +300 °C)	
Resolution	1 °C	
Temperature combustion	air _	
Range	-20 to +200 °C	
Ассигасу	± 3 °C + 1 Digit (-20 to 0 °C)	
Accuracy	± 1 °C +1 Digit (0.1 to +200 °C)	
Resolution	0.1 °C	
Pressure		
Range	± 150 hPa	
Λιτιτούν	± 2 Pa + 1 Digit (< 2.00 hPa)	
Accuracy	± 1 % RDG (> 2.00 hPa)	
Resolution	0.01 hPa (< 19.9 hPa), 0.1hPa (>20 hPa)	

Data processing Apps .

Easy display and processing of measured values by the EuroSoft mobile app for Android and iOS.





The MULTILYZER STe is of course fitted with a condensate cartridge. This part has been placed in the sampling line, so that the user can properly see when the cartridge needs to be emptied. A dust filter and a PTFE-filter have also been fitted in the condensate cartridge. The PTFE-filter prevents the condensate water from reaching the sensors.

EN50379 part 1 and 2 ...

The EN50379 is the European standard in which the permissible measurement techniques, for measurements of combustion appliances, are specified. The MULTILYZER STe has EN50379 part 1 and 2 certification for measuring O2, COH2, COHIGH , NO, temperature and pressure.

Options		
NO NO		
Range	0 to 2.000 ppm	
Accuracy	± 5 ppm(<50 ppm) / ± 5% RDG (>50ppm)	
Resolution	1 pmm	
NO ₂		
Range	0 to 2,000 ppm	
Accuracy	± 10 ppm (<50 ppm) / ± 10 % RDG (>50 ppm)	
Resolution	1 ppm	
SO ₂		
Range	0 to 2,000 ppm	
Accuracy	± 10 ppm (<200 ppm) / ±5% RDG (>200 ppm)	
Resolution	1 ppm	
CO _{high}		
Range	0 to 2,0 Vol% (=20,000 ppm)	
Accuracy	± 5% RDG	
Resolution	0.01 Vol%	



General specifications		
Dimensions (W x L x D)	90 x 220 x 53 mm (including protective holster)	
Weight	About 685 Gram (including protective holster)	
Material housing	Polyamide (PA)	
Display	Graphic color screen 3,5" (240 x 320 pixels)	
Datenkommunikation	Wireless infr-red connection with optional EUROprinter	
	Bluetooth Smart (BLE- Bluetooth Low Energy)	
Printer	External wireless thermal printer (EUROprinter)	
Memory	MicroSD card / SDHC up to 16 GB (optional)	
Operating temperature	5 to +40 °C	
Storage temperature	-20 to +50 °C	
Ingress Protection Rating	IP42 (EN 60529)	
Battery	Li-Ion battery 3,6 V / 2.900 mAh	
Mains power supply	Mini USB (5 V)	



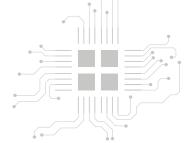


Zubehör im Lieferumfang..

Hardcover carrying case, space for various accessories for example 300 mm flue gas probe with 2,4 meter hose and condensate cartridge with filter, protective holster with magnets, battery charger /mains power supply, temperature probe for ambient air, instruction manual (incl. copy of EN50379 certificate).











Optional accessories SYSTRONIK GmbH

Modular probe system

Base handle for interchangeable probes.





Base handle with hose and condensate filter cartridge

EUROprinte

The EUROprinter BLE is a useful thermal printer for wireless printing of measurement results from various BlueLine® instruments. The measurement protocol could be send via IR or for longer distances with Bluetooth Smart (BLE) to the EUROprinter BLE. The printer is suitable for use with the BLUELYZER ST or the MULTILYZER STe Flue Gas Analyzer and the S4600-series (differential) pressure meters.

Accessories included: batteries, 1 roll printer paper and user's manual.



Printer paper for the EUROprinter (5 rolls).

Set of 5 rolls of thermal printer paper



Туре	Purpose
523228	Metalpipe (180mm)
523229	Metalpipe (300 mm)
523358	Flexible metal-pipe (400mm)



Note: Exemplary images

PTFE-filter (5 pieces)

The MULTILYZER STe's condensate cartridge contains a PTFE-filter, which functions as an additional safeguard against condensation.

If the condensate cartridge is not emptied in time, this filter will close access to the Flue Gas Analyzer, so no water can reach the sensors.



Dust filter.

The MULTILYZER STe's condensate cartridge contains a dust filter that protects the Flue Gas Analyzer against dust and soot particles.

These particles can damage the instrument if they reach the sensors. The dust filter should be replaced periodically to guarantee proper operation.

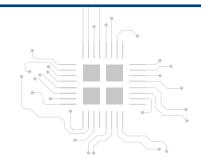


SYSTRONIK GmbH is specialized in development and production high quality measuring instruments for flue gas analysis, testing and maintaining HVAC installations, climate technology and environmental technology.

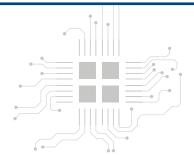
All SYSTRONIK products meet the highest standards for quality, reliability and safety. Our facilities are certified to full operational requirements of the ISO 9001 quality standard. We are constantly striving to improve our quality assurance position with input from periodic audits by independent experts required for continued ISO 9001 certification.

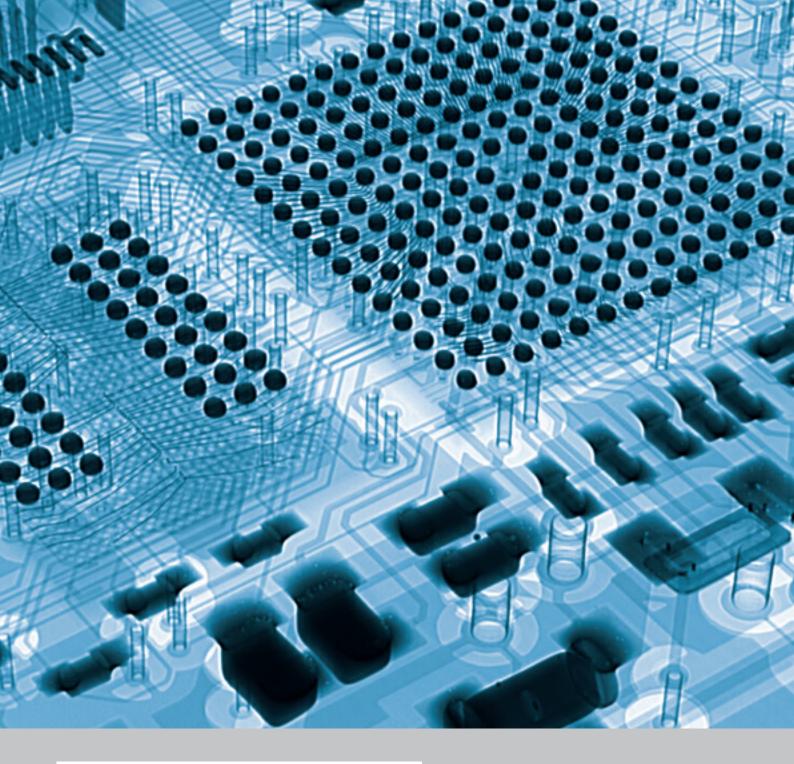












Distributor

BlueLine®

Subject to change - SYSTRONIK v15002 The Bluetooth® word trademark and figurative trademark are the property of Bluetooth SIG, Inc.
Use of these trademarks by SYSTRONIK occurs under license
Google Play is a trademark of Google Inc.

Member of AFRISO-EURO-INDEX Group

SYSTRONIK Elektronik und Systemtechnik GmbH Gewerbestraße 57 · D-88636 Illmensee

+49 7558 / 9206-0 · Fax +49 7558 / 9206-20 $info@systronik.de \cdot www.systronik.com\\$

