

EUROLYZER® ST_x

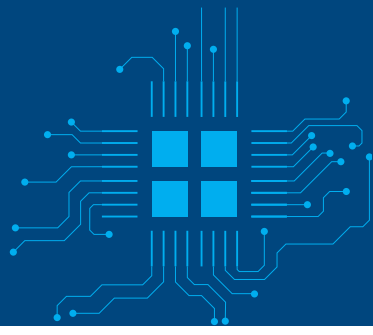
Flue Gas Analyzer



BlueLine®



SYSTRONIK
Messtechnologie



The flue gas analyzer for measurement of small and medium-sized oil, gas and pellet heating systems in accordance with the German Federal Immission Act and to verify the CO concentration in gas fired systems.

Ideal for the maintenance of pellet heating systems with temporary CO peaks up to 9,999 ppm or bivalent, modulating combined heating and power plants.



EUROLYZER STx is a portable flue gas analyzer with a robust protective holster and integrated magnets. The large TFT color display allows you to display up to 8 values. The EUROLYZER STx includes automatic control devices at startup and limit monitoring to protect the sensors. The compact design allows any combination of up to three measuring cells (O₂, CO, NO). The new ECO-sensor technology has a longer life, is resistant to biogenic fuels and also "lead-free" - an active contribution to environmental protection!

Calculated parameters: CO undiluted (air free), Lambda, CO₂, efficiency (Eta), flue gas loss (qA), dew point, temperature difference. The COH₂ measuring cell is H₂-compensated for official measurements. The optional data logger function allows long-term measurements in freely definable intervals. The data output is in XML format supports and is therefore universally usable.

There are a variety of data interfaces, such as USB, Bluetooth Smart (BLE), infrared and MicroSDHC card for communication with other devices, PC or the EUROprinter available. .

Alternatively, the measurement protocols can be converted to QR code and then scanned by smartphones and tablets. The protocols can also be passed to management software programs.

Funktionalität

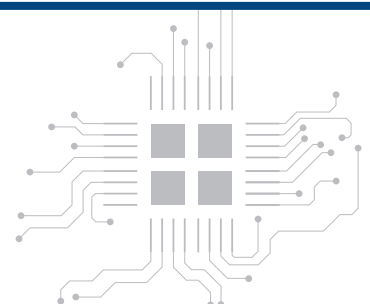
Measurement of:

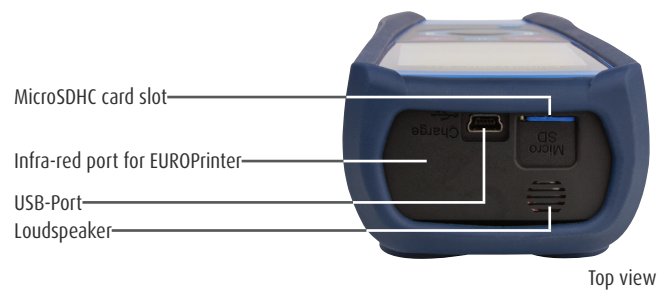
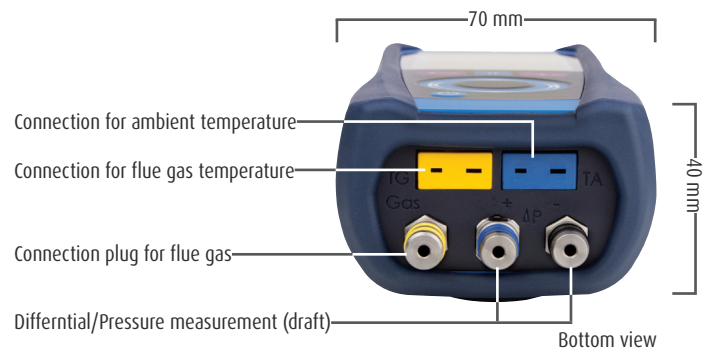
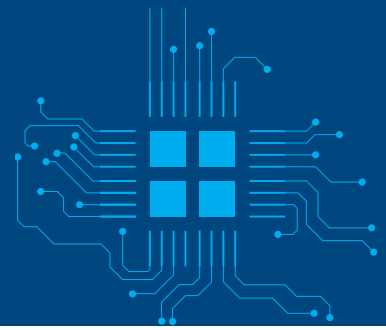
- O₂ (oxygen)
- CO_{H₂} (carbon monoxide, H₂-compensated)
- NO (nitrogen oxide)
- Draft /Differential pressure
- T_{air} (ambient temperature)
- T_{gas} (flue gas temperature)
- Barometric pressure

Calculation of:

- CO₂ (carbon dioxide)
- CO undiluted
- Difference in temperature
- Combustion efficiency
- Lambda (excess air)
- Flue-gas losses
- CO_{ref} (O_{2ref} configured)
- Dewp. (dewpoint)
- NO_x (based on NO)

The drop-down menu with colored icons appears immediately after activating the EUROLYZER STx. 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 key. When using the flue gas analysis function, you will first be asked to make a selection from a list of fuel types. Then the measured values will be displayed on the screen.



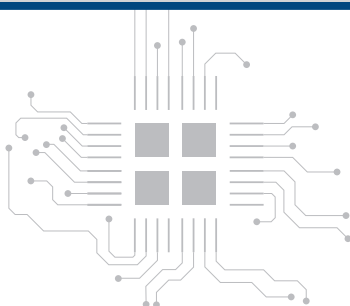


Color screen

The EUROLYZER STx has a 2,8" TFT color display with a resolution of 240 x 320 pixels. The various measurement menus are each displayed in their own unique color, which simplifies navigation. The display's large viewing angle, clarity and backlight ensure that the data and measurement values displayed are clearly visible under all circumstance

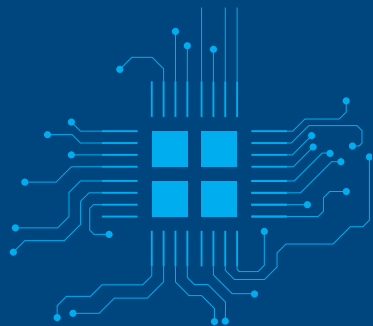
Easy to use

Due to the clever design, everything is put in a convenient and logical place (see above). The BlueLine®EUROLYZER STx is very compact and therefore easy to handle and transport. **You can make the same high quality demands on the EUROLYZER STx as on any other BlueLine®measuring instruments!**



Look for more information on
www.systonik.com

SYSTRONIK
Messtechnologie



Technical specifications

O₂ (oxygen)

Measuring range 0 bis 21.0 Vol. %

Accuracy ± 0.2 Vol. % RDG

Resolution 0.1 Vol. %

CO (carbon monoxide) with H₂-Compensation

Measuring range 0 bis 5,000 ppm (nominal) or 9,999 ppm (maximal)

Accuracy ± 5 ppm (< 50 ppm)

$\pm 5\%$ RDG (> 50 ppm)

Resolution 1 ppm

CO₂ (carbon dioxide)

Measuring range 0 to CO₂ max (depending on fuel)

Accuracy ± 0.2 Vol. %

Resolution 0.1 Vol. %

Flue gas temperature

Measuring range 0 bis +1,000 °C

Accuracy ± 1 °C (< +300 °C)

$\pm 1\%$ RDG (> +300 °C)

Resolution 0.1 °C

Ambient temperature

Measuring range -20 to +200 °C

Accuracy ± 3 °C + 1 Digit (-20 to 0 °C)

± 1 °C + 1 Digit (0.1 bis +200 °C)

Resolution 0.1 °C

Pressure

Measuring range ± 150 hPa

Accuracy ± 2 Pa + 1 Digit (< 2.00 hPa)

$\pm 1\%$ RDG (> 2.00 hPa)

Resolution 0.01 hPa (< 19.9 hPa), 0.1 hPa (> 20 hPa)

Options

NO

Measuring range 0 bis 2,000 ppm

Accuracy ± 5 ppm (< 50 ppm) / $\pm 5\%$ RDG (> 50 ppm)

Resolution 1 ppm

Performance

In addition to the usual gas-measurement functions, the compact all-rounder can accommodate up to three gas-measuring cell, one pressure and two temperature sensors and so it offers the possibility to check all heating systems on the market. The ECO-sensor technology ensures to the fast response.

The EUROLYZER STx starts a test during commissioning to ensure correct functioning of the device.

All sensors are activated, the status of the battery is displayed. If the calibration date is exceeded, a message is displayed.

The EUROLYZER STx is fitted with a condensate filter cartridge. This component is arranged in the hose line so that the user can clearly see when the water-trap needs to be emptied.

A dust filter and a PTFE filter are also integrated in the condensate filter cartridge. The PTFE filter prevents that the condensate reaches the sensors.

EN50379 Part 1 and 2

The EN50379 is the European standard, in which the permissible measurement procedures are established for the measurement of combustion devices. The EUROLYZER STx has certification EN50379 part 1 and 2 for measurements of O₂, COH₂, NO, temperature and differential pressure.

Data processing apps

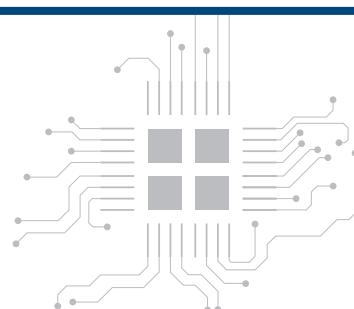
Easily display and processing of the measured values by the EuroSoft mobile app for Android, iOS or Windows.

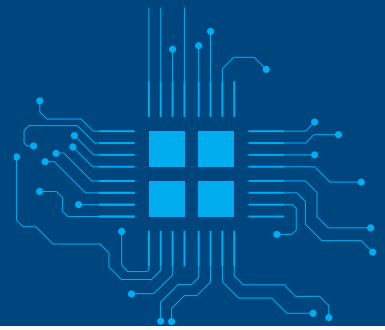
EUROSOFT
mobile



SYSTRONIK
Messtechnologie

Look for more information on
www.systonik.com



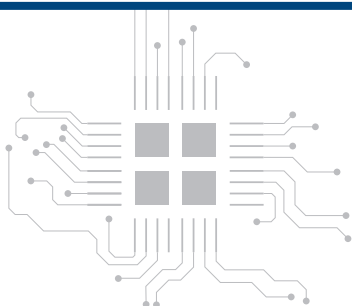


General specifications	
Dimensions (W x L x D)	70 x 215 x 40 mm (including protective holster)
Weight	about 500 Gramm (including protective holster)
material housing	Polyamid (PA)
Display	Graphic color screen 2,8" (240 x 320 pixels)
Data communication	Wireless connection with optional EUROPrinter Bluetooth Smart (BLE- Bluetooth Low Energy)
Printer	External wireless thermal printer (EUROPrinter)
Memory	optional MicroSD/SDHC card (max. 16 GB)
Operating temperature	5 to +40 °C
Storage temperature	-20 to +50 °C
Ingress Protection Rating	IP42 (EN 60529)
Battery	Li-Ion accu 3,6 V
Mains power supply	Mini USB (5 V)



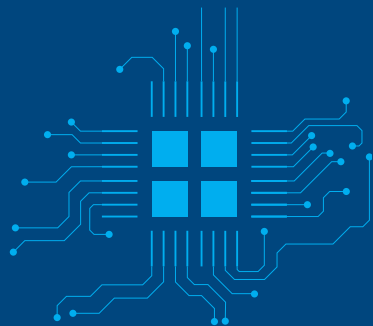
Accessories.....

The EUROLYZER STx has matching accessories for every job in the HVAC professional and chimney sweep everyday life. The high-quality carrying case has room for all this. For example, for a 300 mm exhaust gas probe with 2.40 m hose and condensate cartridge filter, protective cover with magnet, battery charger / power supply, temperature sensor for ambient air, manual (incl. copy of EN50379 certificate).



Look for more information on
www.systronik.com

SYSTRONIK
Messtechnologie



Optional accessories

Modular probe system

Base handle for interchangeable probes.



Base handle with hose and condensate filter cartridge.

Typ	Purpose
523228	Metal-pipe (180mm)
523229	Metal-pipe (300 mm)
523358	Flexible Metal-pipe (400mm)

523228

523229

523358



Note: Exemplary images

EUROprinter

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, EUROLYZER STx 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.



PTFE-filter (5 pieces)

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

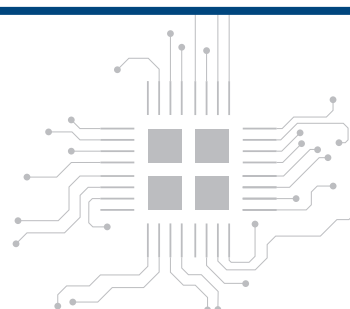
If the condensate cartridge is not emptied in time, this filter will close access to the Flue Gas Analyzer, so no water can reach the sensors.

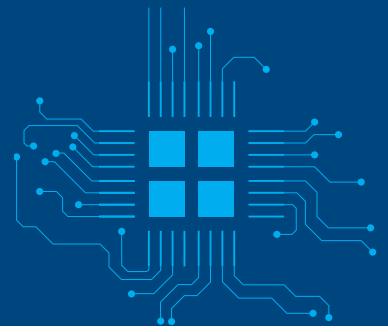


Dust filter

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

Note: The dust and other particles can impair the instrument if they reach the sensors. The dust filter should be replaced periodically to guarantee proper operation.

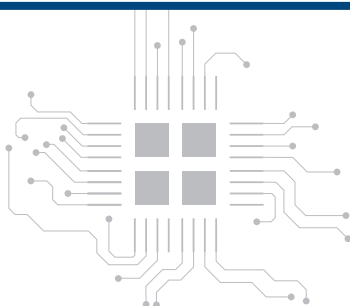




SYSTRONIK GmbH

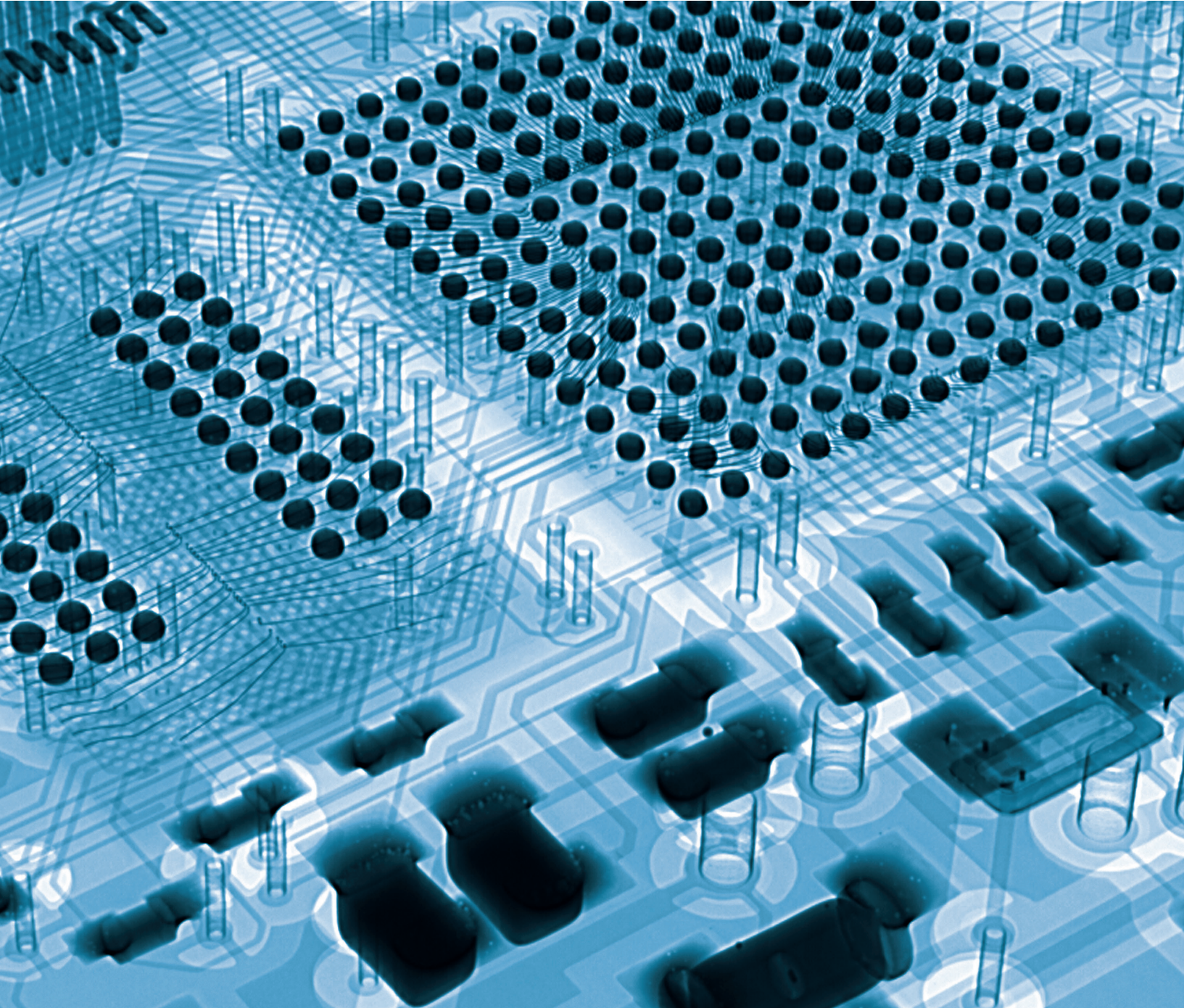
SYSTRONIK GmbH is specialized in development and production high quality measuring instruments for flue gas analysis, testing and maintaining HVAC installations, climate technology and environmental technology.

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.



Look for more information on
www.systronik.com

SYSTRONIK
Messtechnologie



Distributor:

BlueLine®

Subject to change - SYSTRONIK v15001
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

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

SYSTRONIK

Messtechnologie