EUROλYZER® STx
Flue Gas Analyzer

Fluegas

CO Ambient measurement

Temperature Measurement

Pressure Measurement

BlueLine®

Bluetooth®
SMART

TÜV SÜD
EN 50379

www.tuv.com
TÜVRheinland CERT
ISO 9001
ID 9105030470
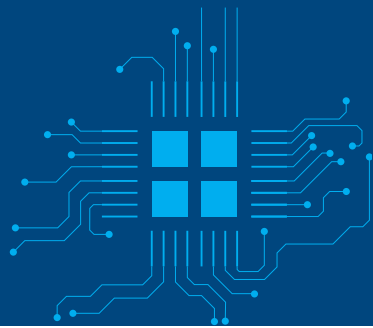
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The flue gas analyzer for measurement of small and medium-sized oil, gas and pellet heating systems in accordance with the German Federal Immision Act and to verify the CO concentration in gas fired systems.
Ideal for the maintenance of pellet heating 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.

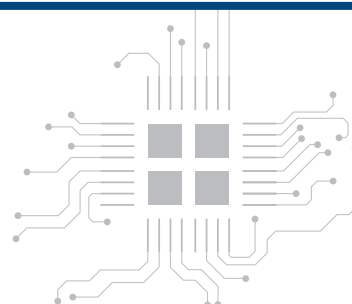Funktionality ....
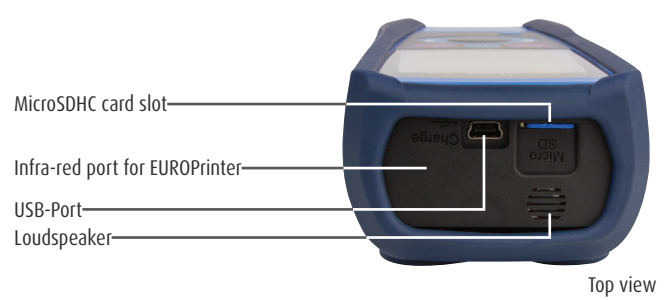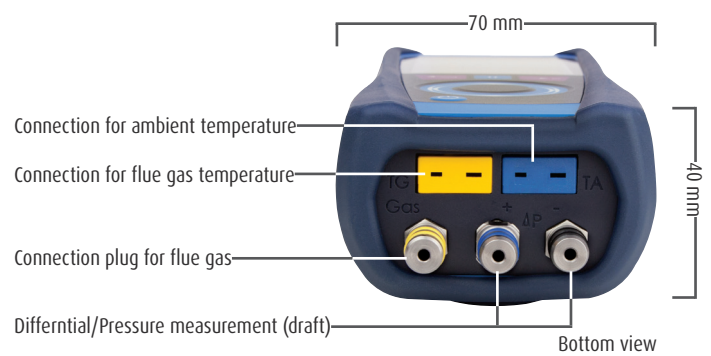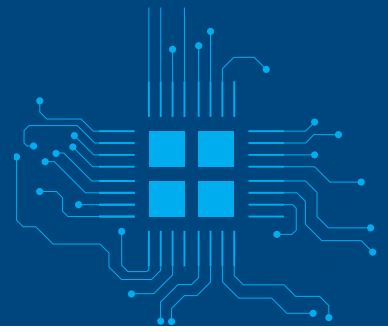
Measurement of:
- O_2 (oxygen)
- CO_{H2} (carbon monoxide, H_2-compensated)
- NO (nitrogen oxide)
- Draft /Differential pressure
- T_{air} (ambient temperature)
- T_{gas} (flue gas temperature)
- Barometric pressure

Calculation of:
- CO_2 (carbon dioxide)
- CO undiluted
- Difference in temperature
- Combustion efficiency
- Lambda (excess air)
- Flue-gas losses
- CO_{ref} (O_{2ref} configured)
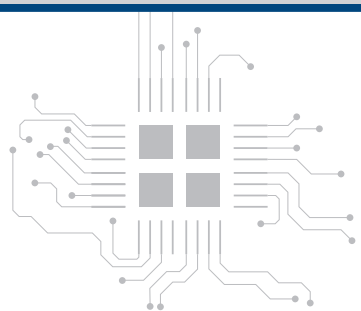- Dewp. (dewpoint)
- NO_x (based on NO)

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.
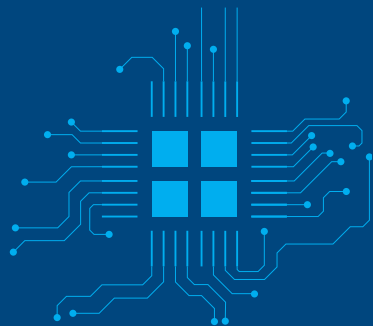
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Protective holster
with magnets

TFT color display

EUROλYZER® STx

SD

Fluegas

CO Ambient
measurement

Temperature
Measurement

Pressure
Measurement

215 mm

Pause key

Escape key

Enter key

Navigation touch wheel

On/Off key

Connection plug for flue gas

Differential/Pressure measurement (draft)

70 mm

Connection for ambient temperature

Connection for flue gas temperature

Connection plug for flue gas

Differntial/Pressure measurement (draft)

40 mm

Bottom view

TG
Gas

ΔP

TA

MicroSDHC card slot

Infra-red port for EUROPrinter

USB-Port

Loudspeaker

Top view

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 an the EUROLYZER STx as on any other BlueLine®measuring instruments!**

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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)
	± 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)
	± 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)
	± 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) / ± 5% RDG (>50ppm)
Resolution	1 pmm

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.
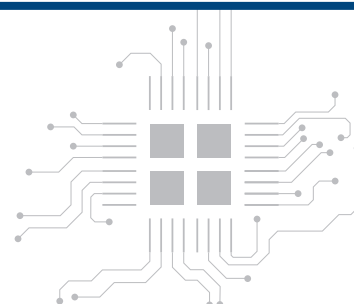
EN50379 Part 1 and 2

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.
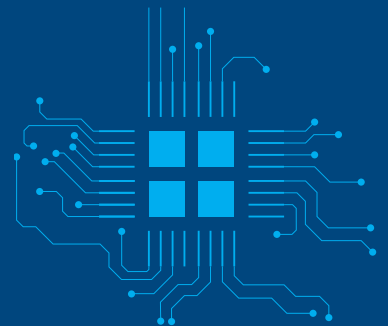
Data processing apps

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

Look for more information on
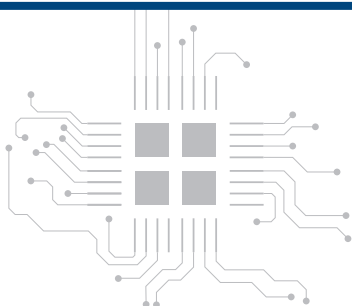www.systronik.com

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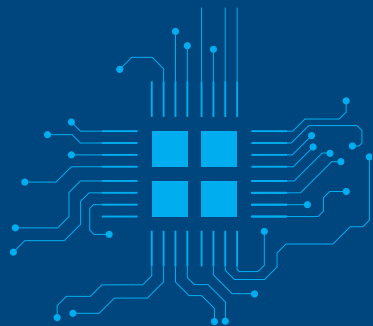
The EUROLYZER STx has matching accessories for every job in the HVAC professional and chimney sweep everyday life. The high-quality carrying case has room for all this. For example, for a 300 mm exhaust gas probe with 2.40 m hose and condensate cartridge filter, protective cover with magnet, battery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

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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 siutable for use with the BLUELYZER ST, EUROLYZER STx or the MULTILYZER STe Flue Gas Analyzer and the S4600-series (differntial) 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 cartrigde contains a PTFE-filter, which functions as an additional safeguard against condensation.
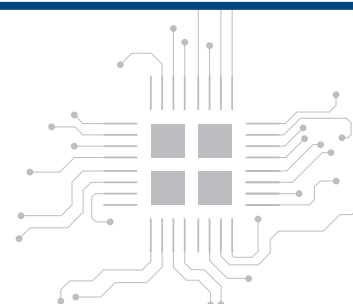
If the condensate cartrigde is not emptied in time, this filter will close access to the Flue Gas Analyzer, so no water can reach the sensors.
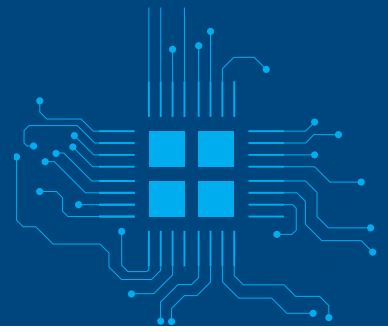

Dust filter..
The EUROLYZER STx`s condensate cartrigde contains a dust filter that protects the Flue Gas Analyzer against dust an soot particles.

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.

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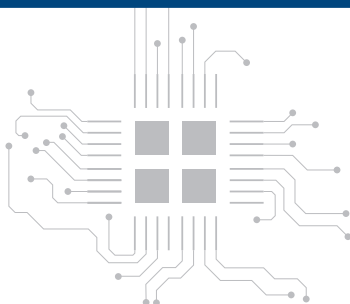**Look for more information on**
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SYSTRONIK GmbH

SYSTRONIK GmbH is specialized in development and production high quality measuring instruments for flue gas analysis, testing and maintaining HVAC installations, climate technology and enviromental technology.
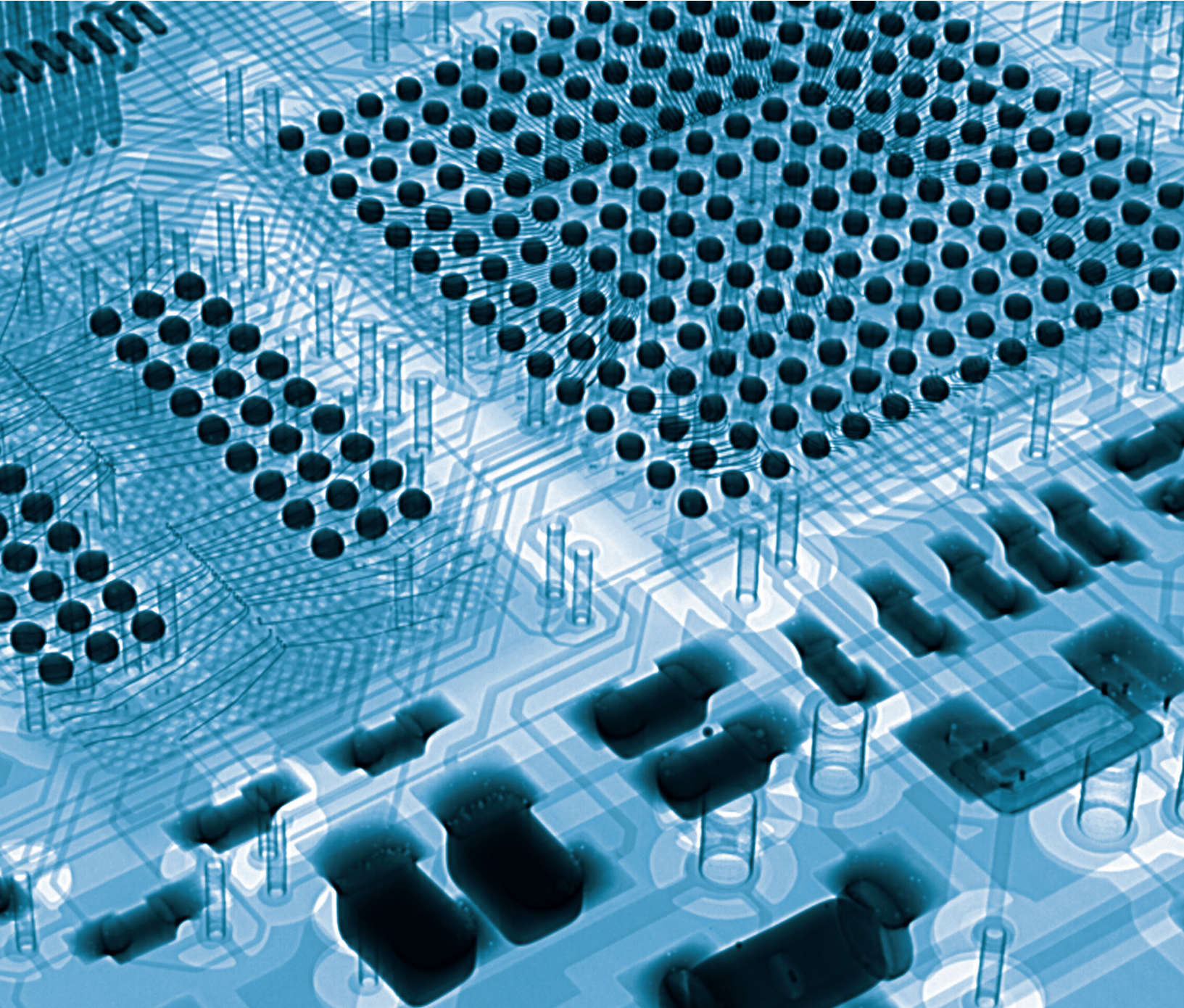
All SYSTRONIK products meet the highest standards for quality, reliability and safety. Our facilities are certified to full operational requirements of the ISO 9001 quality standard. We are constantly striving to improve our qualitiy assurance position with input from periodic audits by independent experts required for continued ISO 9001 certification.

Distributor:

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