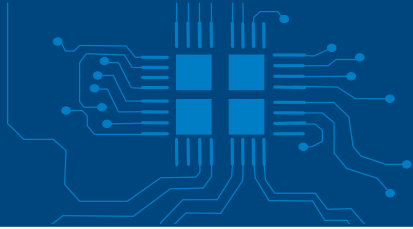# EUROλYZER STe
Flue gas analyzer

BlueLine®

Bluetooth®

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EUROLYZER STe is an ergonomically designed flue gas analyzer with a robust protective holster and integrated magnet. It is operated via a touch pad with a special recess for scrolling. A high-resolution TFT color display, the color-assisted menu design and color variable measured value representations guarantee high user friendliness. With automatic control devices at startup.

The measuring operation can be done in two active display levels. The all-rounder allowed the assembly with three measuring cells (O2, CO, NO). Universal application for measuring small and medium-sized oil, gas and pellets fired heating systems according to the new 1st German Federal Immission Act (qA mean value measurement) and for CO concentration safety checks at gas fired systems. Thanks to its H2-compensated CO measurement up to max. 9,999 ppm, it is suitable also for measurements on pellets fired.

Operation...
The drop-down menu with colored symbols appears immediately after the activation of EUROLYZER STe. The touch wheel can be used to select the following different programs: Flue gas analysis, temperature measurement, pressure measurement, device settings and memory management. Confirm your selection by pressing Enter key.

When using the flue gas analysis function, you will first be prompted to select a fuel type from a list. Measured values are displayed on the screen.

Storage Options..
A MicroSD card allows for system-independent storage. EUROLYZER STe offers a USB interface for communication with eg PC or Netbook optional data transfer via Bluetooth - for communication with pressure and temperature probes. Printer connection is via infrared.

Durable sensors...
ECO sensors for oxygen are „lead-free", durable, have a fast response time and this make an active contribution to environmental protection!

EN50379 part 1 and 2..
The EN50379 is the European standard, in which the permissible measurement procedures are established to measure combustion Geräter. The EUROLYZER STe has certification EN50379 Parts 1 and 2 for measurements of O2, COH2, NO, temperature and pressure.

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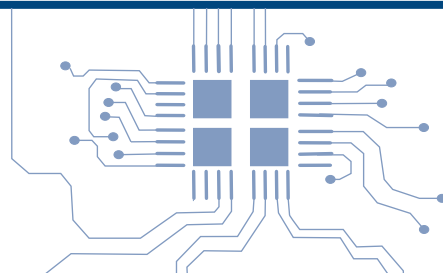
An extremely compact flue gas analyser
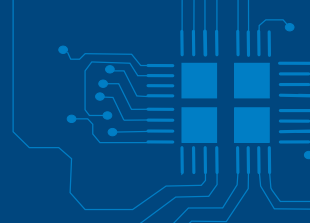
Technical specifications

O_2 (Oxygen)

Range	0 to 21.0 Vol.%
Accuracy	± 0.2 Vol.% RDG
Resolution	0.1 Vol.%

CO (carbon monoxide) with H_2- compensation

Range	0 to 4.000 ppm
Accuracy	± 5 ppm (< 50 ppm)
	± 5% RDG (> 50 ppm)
Resolution	1 ppm

CO_2 (carbon dioxide)

Range	0 to CO_2 max (depending on the fuel)
Accuracy	± 0,2 Vol.%
Resolution	0.1 Vol.%

Flue gas temperature

Range	0 to +1,000 °C
Accuracy	± 1 °C (< +300 °C)
	± 1 % RDG (> +300 °C)
Resolution	1 °C

Ambient air temperature

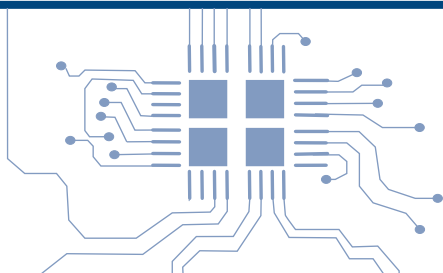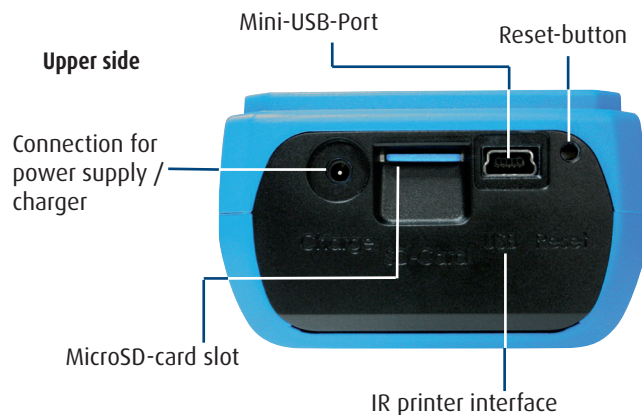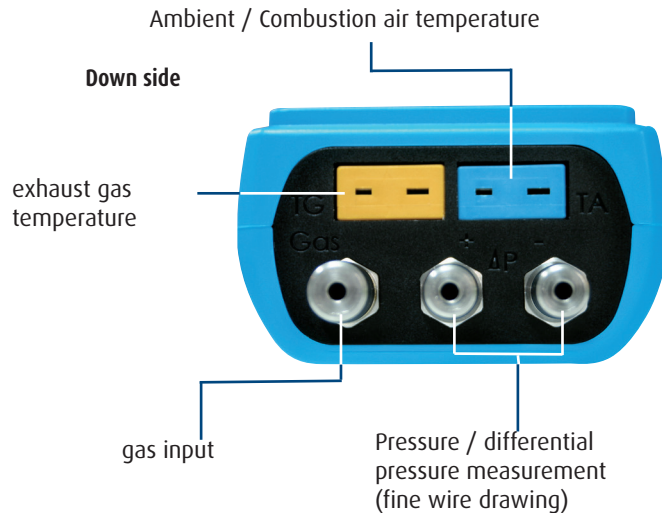|	
Range	-20 to +200 °C
Accuracy	± 3 °C + 1 Digit (-20 to 0 °C)
	± 1 °C +1 Digit (0.1 to +200 °C)
Resolution	0.1 °C

Pressure
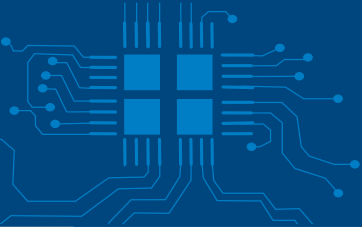
Range	± 130 hPa
Accuracy	± 2 Pa + 1 Digit (< 2.00 hPa)
	± 1 % RDG (> 2.00 hPa)
Resolution	0.01 hPa (< 19.9 hPa), 0.1hPa (>20 hPa)

Options

NO

Range	0 to 2,000 ppm
Accuracy	± 5 ppm(<50 ppm) / ± 5% RDG (>50ppm)
Resolution	1 ppm

Down side

Ambient / Combustion air temperature

exhaust gas temperature

gas input

Pressure / differential pressure measurement (fine wire drawing)

Upper side

Mini-USB-Port

Reset-button

Connection for power supply / charger

MicroSD-card slot

IR printer interface

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General specifications

Dimensions (W x L x D)	70 x 215 x 40 mm (inclusive protective holster)
Weight	approx.. 500 Gramm (inclusive protictive holster)
Housing material	Polyamide (PA)
Display	Graphic colour screen 2,8" (240 x 320 Pixel)
Data communication	Infrared connection with the optional Euro Printer
	Bluetooth
Printer	external wireless thermal printer (EUROprinter)
Memory	MicroSD-Card (optional)
Operating temperature	5 to +40 °C
Stock temperature	-20 to +50 °C
Ingress Protecting Rating	IP42 (EN 60529)
Battery	NiMH accu 4.8 V / 2,000 mAh
Mains Power Supply	Mini USB (5 V)

Data processing app ....
Easily display and processing of the measured values by the Euro Soft mobile app for Android.

EuroSoft mobile

Optional accessoires

EUROprinter ....
The BlueLine EUROprinter is a practical thermal printer for wireless printing of measurement results from different BlueLine® devices. EUROprinter communicates via infrared wireless with the meter. EUROprinter is suitable for use with BLUELYZER ST, EUROLYZER ST(e), MULTILYZER STe/NG and S4600 ST series.

Scope of delivery: Battery, 1 roll printer paper and instructions.

Flue gas probe..
This exhaust probe is connected to a adjustable measuring cone, a Thermocouple and a 1.8 meter long hose kit is fitted.
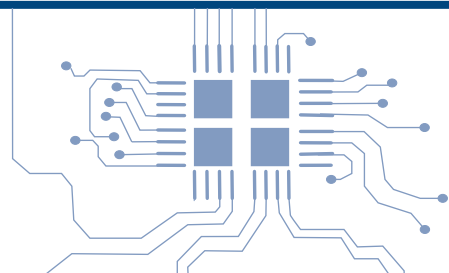
Gas conditioning with filter..
Gas conditioning with filter to protect the instrument. It collects the condensate water and by the Filter element to be removed from the exhaust particles. The PTFE washer prevents ingress of condensate into the meter.
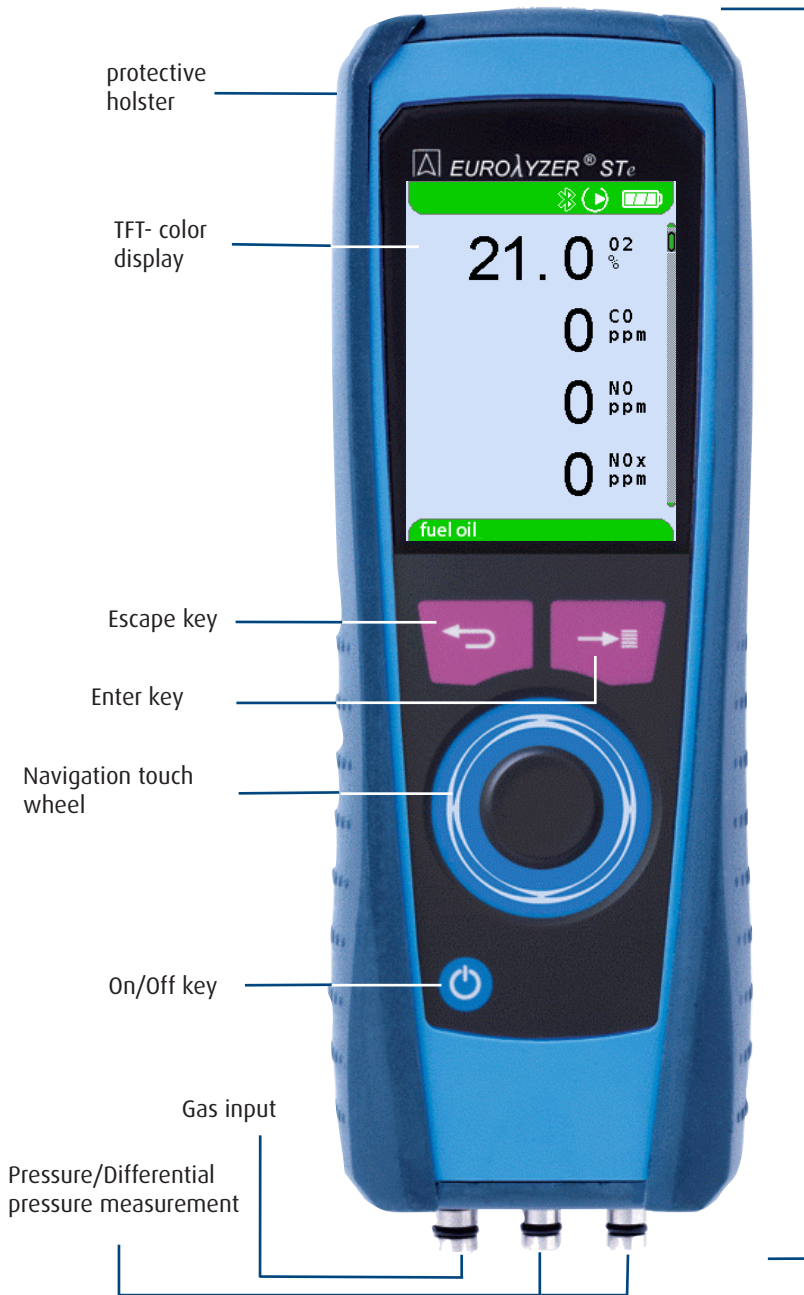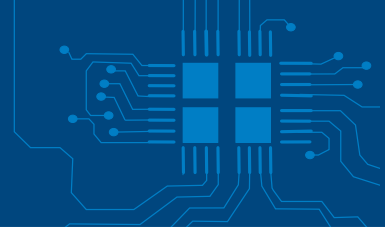
More accessoires..
Get one for your needs individual offer of instruments and accessories.

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Modern measurement technology

protective holster

TFT- color display

Escape key

Enter key

Navigation touch wheel

On/Off key

Gas input

Pressure/Differential pressure measurement

EUROλYZER ® STe

21.0 $\%$ O2

0 CO ppm

0 NO ppm

0 NOx ppm

fuel oil

215 mm

Functions ....
Measurements of:
- O_2 (Oxygen)
- CO_{H2} (H_2-compensated)
- NO (nitrogen dioxide)
- Differenz/Feinzug Druck
- T_{air} (Ambient temperature)
- T_{gas} (Flue gas temperature)

Calculation of:
- CO_2 (Carbon dioxid)
- CO undilutet
- Differential temperature
- Combustion efficiency
- Lambda (excess air)
- Flue-gas losses
- CO_{ref} (with O_{2ref} to configure)
- T_{au} (Dew point)
- NO_x ($NO+NO_2$)

Color display...
The EUROLYZER STe has a 2.8 „TFT color display with a resolution of 240 x 320 pixels. The various measurement menus are each represented in their own colors. The large viewing angle, clarity and ensure the backlight, that the data and measured values under all may be clearly visible.
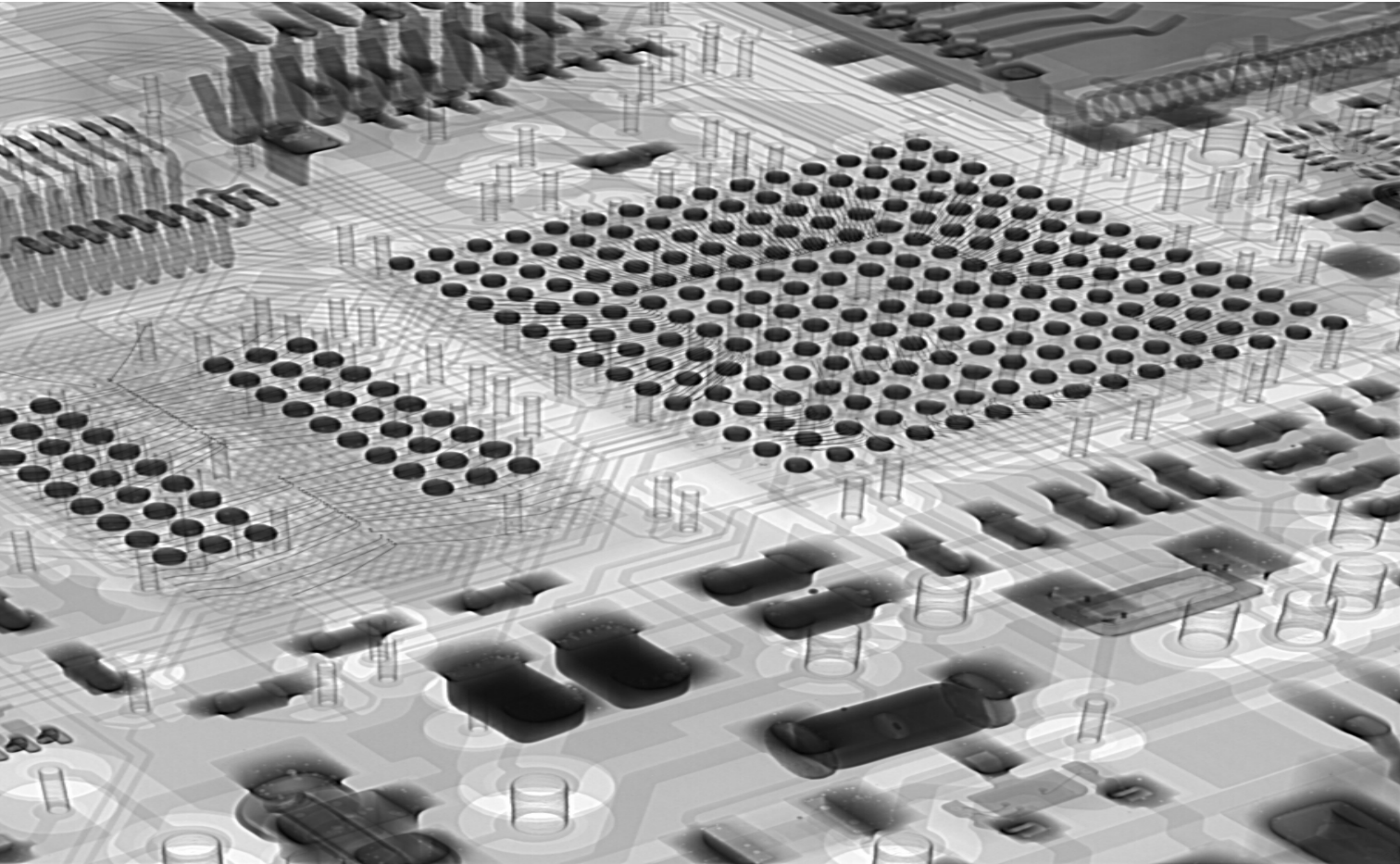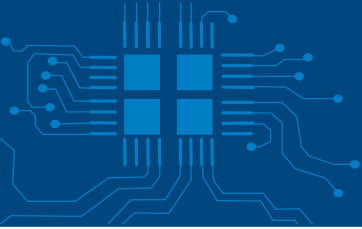
Easy handling...
Due to the clever design, everything is in one convenient and logical place.
The EUROLYZER STe is very compact and therefore very easy to handle and transport. The high quality requirements of EUROLYZER STe are the same as in any other of BlueLine® measuring instruments!
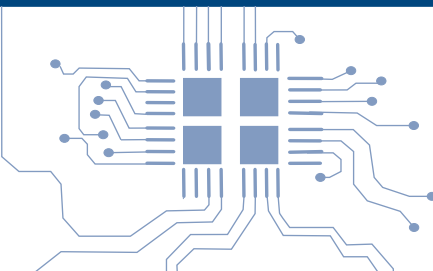
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Distributor:

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A complete measurement solution
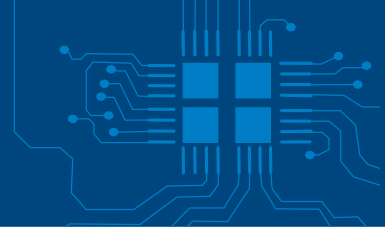
SYSTRONIK..
The SYSTRONIK GmbH specializes in the development and production of high quality measuring instruments for gas analysis, testing and maintenance of HVAC systems, and climate and environmental technology. All SYSTRONIK products meet the highest standards for quality, reliability and safety. Our equipment and our company is certified according to DIN ISO 9001. We are constantly striving to improve our quality, we ensure this through regular audits of unabhängien experts.

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