

Flue gas analysis computer EUROLYZER ST



Features:

- High-resolution, colour TFT display
- Separate measurement programs for flue gas analysis, pressure, temperature and heating check
- Suitable for use with oil-, gas- and pellet-fired installations
- Maximum flexibility due to storage of data on MicroSD cards
- Intuitive navigation with touch-pad for scrolling



Description

EUROLYZER ST is an ergonomically designed flue gas analysis instrument for measurements and servicing of oil-, gas- and pellet-fired installations. The handy device is approved as per the German BImSchV and KÜO (TÜV By RgG 190) as well as EN 50379-2. EUROLYZER ST is operated via a touchpad for easy scrolling. The high-resolution TFT screen is excellent to read. Colour-coded menus further improve user-friendliness. The individual measurement programs are identified by different colours:

- Flue gas measurement
- Temperature measurement
- Pressure measurement
- Heating check

Programme-specific messages and information (e.g. pump operating mode, range exceeded, etc.), representation of measured value in different colours (e.g. when limit values or alarm thresholds are exceeded) and/or the function line for relevant and program-related information (e.g. selected fuel, time, date, etc.) further facilitate the operation of EUROLYZER ST.

Standardised interfaces (USB, Bluetooth) allow for simple connection to and communication with PCs, notebooks, PDAs or other master data recording systems. Of course, an infrared interface for the "EUROPRINTER" (thermal printer)

for documenting the measured results is also available. A MicroSD card allows for system-independent data storage. Any standard MicroSD card with a memory of up to 4 GB can be used. The card can be read without any additional software by all laptops, notebooks and PCs. For the first time, improved sensor technology enables H₂-compensated CO measurements with a measuring range of up to max. 9,999 ppm (nominal 5,000 ppm). Even polluted filter elements do not impede the accuracy.

Additional outstanding features:

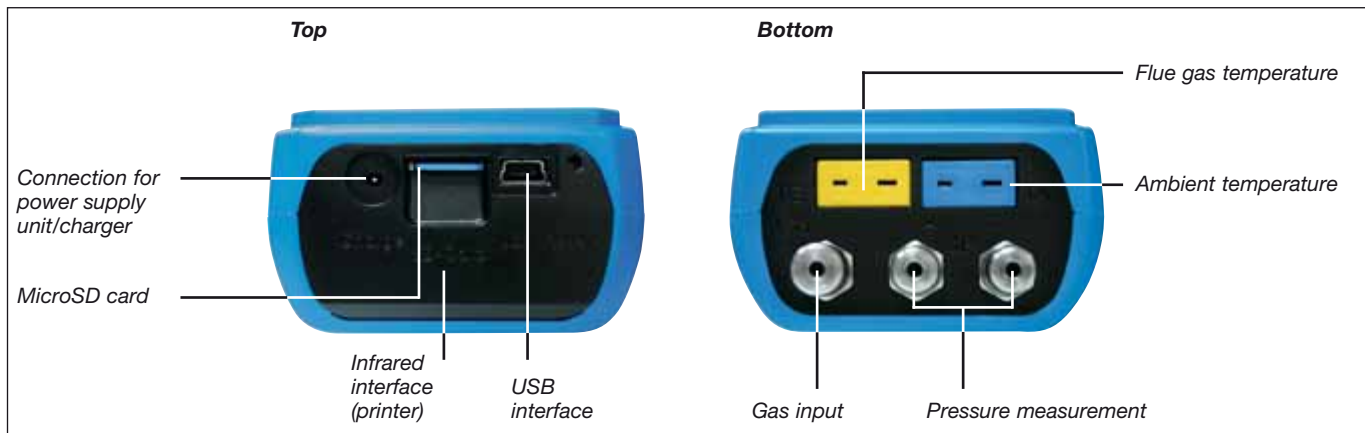
- Measuring mode with two active display levels (multitasking mode)
- Automatic device monitoring with sensor test (self-diagnostics)
- Fuel-related dew point calculation
- Up to 10 hours of operation in Eco mode with powerful NiMH battery block
- Non-wearing stainless steel connections for gas and pressure
- Internationally standardised connector system for NiCr-Ni thermocouples (type K) for unlimited compatibility

Application

EUROLYZER ST is the ideal solution for checking and servicing small and medium-sized heating systems according to the German BImSchV guidelines and for CO concentration safety checks at gas-fired systems. The instrument is ideally suited for measurement at bivalent and modulating CHP systems up to a Lambda value of 1.00. It also provides exact calculation of the "Eta" value for all condensing heating systems with fuel-specific dew point calculation.

If equipped with optional accessories (page 484), EUROLYZER ST can also be used to perform the required measurements for heating checks (ventilation and surface loss measurements

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Technical specifications

Measured values,

depending on equipment
O₂, CO/H₂, NO, flue gas temperature, combustion air temperature, draft, pressure

Calculated values,

depending on equipment
CO undiluted (air free), NO_x, lambda, CO₂, efficiency (Eta), temperature difference, pressure difference, Eta for condensing systems, flue gas losses (qA), dew point

Entry of values,

depending on equipment
Soot number, oil derivatives, customer number, boiler temperature

Measuring ranges

Flue gas temperature (including differential pressure measurement)

Measuring range: 0 °C/+1,000 °C
Resolution: 1 °C
Accuracy: ± 1 °C + 1 digit (up to 300 °C)
± 1 % of meas. value (above 300 °C)
Thermocouple: NiCr-Ni (type K)

External wall / air temperature

Measuring range: -20 °C/+200 °C
Resolution: 0.1 °C
Accuracy: ± 3 °C + 1 digit (-20.0 to 0.0 °C)
± 1 °C + 1 digit (-0.1 to +200.0 °C)
Thermocouple: NiCr-Ni (type K)

Draft/differential pressure

Measuring range: ± 50 hPa (draft)/ ± 130 hPa (diff. pressure)
Accuracy: ± 2 Pa (up to ± 2 hPa)
± 1 % of meas. value (up to ± 50 hPa)
± 1.5 % of meas. value (above ± 50 hPa)
Resolution: 1 Pa (= 0.01 hPa)

O₂ measurement

Measuring range: 0 ... 21 % by vol.
Resolution: 0.1 % by volume
Accuracy: ± 0.2 % by volume of meas. value

CO₂ determination

Range: 0 ... CO₂
Max. resolution: 0.1 % by volume
Accuracy: ± 0.2 % by volume

CO measurement

Measuring range: 0 ... 5,000 ppm (nom.)/ 0 ... 9,999 (max.)
Resolution: 1 ppm
Accuracy: ± 5 ppm (up to 50 ppm)
± 5 % of meas. value (above 50 ppm)

NO measurement

Measuring range: 0 ... 2,000 ppm
Resolution: 1 ppm
Accuracy: ± 5 % of meas. value

Data communication

USB interface, wireless infrared printer interface or Bluetooth (option)

Memory

MicroSD card (option, standard card up to max. 4 GB)

Housing/protective sleeve

ABS/soft plastic

Power supply

NiHM battery 6V/2Ah, external mains power supply and charger

Temperature

Connector system for NiCr-Ni thermocouples (type K)

Connections

Draft/pressure: Ø 7 mm
Gas: Ø 8 mm

Approvals

According to BImSchV and KÜO as well as EN 50379-2

Weight (instrument only)

Approx. 400 g

Scope of delivery

EUROLYZER ST, with calibration record, power supply unit, flue gas probe, condensate filter cartridge, ambient air sensor, connection kit for gas fittings, protective sleeve with magnet and aluminium case