

BlueLine®

BLUELYZER® C1

Flue gas analyzer



CO: EN50379-3



Management
System
ISO 9001:2015
www.tuv.com
ID: 9105030470



Compact but tough

Small form, robust housing, maximum protection.

High-resolution display

offers best readability and clearly structured menu navigation.

All-Day power

20+ hours of runtime for uninterrupted use.

Pressure precision

Reliable measurements for gas flow, differential pressure, and air flow

Hands-free work

thanks to strong holding magnets or using the holding eyelet.

Blazing speed

Powered by a fast processor for smooth, responsive performance.

EuroSoft® connect



CAPBs® compatible

Expandable with over 35 sensor units and sets from the CAPBs® system.

Powerful functions for daily HVAC use

Modern heating systems demand precision for both optimal performance and operational reliability. To achieve maximum efficiency, accurate analysis of flue gas composition is essential. Monitoring CO₂, CO, NO, and the resulting toxicity index ensures safe operation while helping to protect the environment.

The BLUELYZER® C1 is built for professionals who value accuracy, simplicity, and reliability. It delivers precise measurement and analysis for the adjustment, maintenance, and inspection of small to medium-sized heating systems.

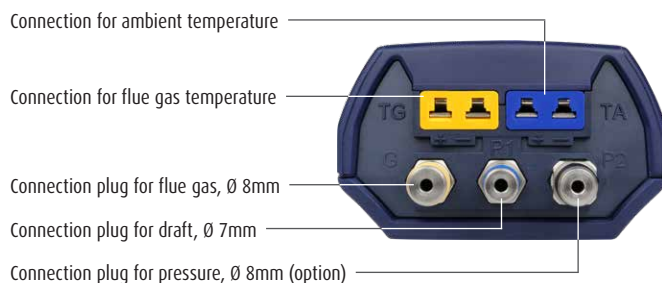
Beyond flue gas analysis, the BLUELYZER® C1 also measures differential pressures and temperatures, enabling quick determination of flow and return values. Integrated CO ambient monitoring adds an extra layer of safety with two freely adjustable alarm thresholds.

A convenient hold function allows measured values to be frozen on-screen while readings continue in the background – ideal for efficient documentation. Customizable measurement programs and parameters provide maximum flexibility in everyday workflows, making the instrument adaptable to each user's needs.

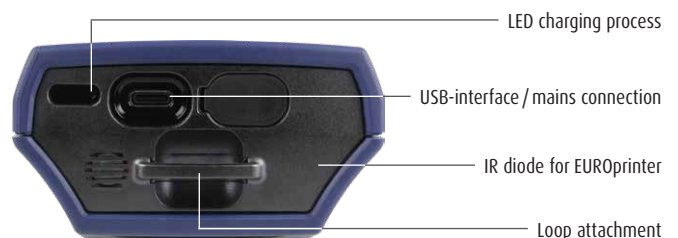


Compact. Smart. Precise.

Bottom view



Top view



Technical specifications	
O₂ (oxygen)	
Measuring range	0 to 21 vol.-%
Accuracy	±0.2 vol.-% RDG
Resolution	0.1 vol.-%
Response delay (t90)	< 30 seconds
CO (carbon monoxide)	
Measuring range	0 to 2,000 ppm (max. 6,000)
Accuracy	±5 ppm (< 50 ppm) ±5 % RDG (> 50 ppm)
Resolution	1 ppm
Response delay (t90)	< 60 seconds
Draft / pressure	
Measuring range	±70 hPa (draft) ±150 hPa (pressure)
Accuracy	±0.02 hPa (< 2 hPa) ±1 % RDG (> 2 hPa)
Resolution	0.01 hPa (< 20 hPa) 0.1 hPa (> 20 hPa)
Max. overload	1,350 hPa
Response delay (t90)	< 10 seconds
Flue gas temperature	
Measuring range	0 to 1,150 °C
Accuracy	±1 °C + 1 digit (< 300 °C) ±1 % RDG (> 300 °C)
Resolution	0.1 °C
Response delay (t90)	< 30 seconds
Combustion air temperature	
Measuring range	-20 to 200 °C
Accuracy	±3 °C + 1 digit (-20 < 0 °C) ±1 °C + 1 digit (0 < 200 °C)
Resolution	0.1 °C
Response delay (t90)	< 30 seconds
Option: CO_{high} (carbon monoxide)	
Measuring range	0 to 2.0 vol.-%
Accuracy	±10 ppm (< 200 ppm) ±5 % RDG (> 200 ppm)
Resolution	1 ppm
Response delay (t90)	< 60 seconds
Option: NO (nitrogen oxide)	
Measuring range	0 to 5,000 ppm
Accuracy	±5 ppm (< 50 ppm) ±5 % RDG (> 50 ppm)
Resolution	1 ppm
Response delay (t90)	< 60 seconds
Option: NO_{low} (nitrogen oxide low)	
Measuring range	0 to 300 ppm
Accuracy	±2 ppm (< 40 ppm) ±10 % RDG (> 40 ppm)
Resolution	0.1 ppm
Response delay (t90)	< 60 seconds

General specifications	
Dimensions H x W x D	178 x 78 x 45 mm
Weight	approx. 370 g (depending on configuration)
Material housing	2K ABS + PC / TPE
Display type	3.5" color TFT
Air pressure range	750 to 1,100 hPa
Humidity range	20 to 80 % rh
Operating temperature	0 to 40 °C
Storage temperature	-20 to 50 °C
Data interface	Bluetooth®
	QR code generator
	USB-C
Connections	IR / Bluetooth® with optional EUROprinter
	Gas: 1x Ø 8 mm
	Draft: 1x Ø 7 mm
	Pressure: 1x Ø 8 mm (option)
	Temperature: 2x thermocouple socket
Power supply	via USB-C socket and adapter
Battery type	rechargeable lithium-ion battery 3.6 V / 4,800 mAh
Operating time	approx. 20 hours
Memory type	internal memory (up to 100 measurement reports)
Ingress protection rating	IP40 (EN 60529)



Technical highlights



- **3-sensor setup (O_2 , $CO+$, NO_{low})**
versatile configuration for a wide range of applications
- **Differential pressure option**
includes all standard pressure measurement features of BlueLine® instruments
- **Enhanced O_2 sensor**
durable design with an expected lifetime of around three years
- **Gas path check (option)**
automatic tightness test of the measuring system and probe for reliable operation
- **Consistent probe connection**
fully compatible with existing BlueLine® accessories
- **Integrated memory function**
stores up to 100 measurement logs locally in the instrument

Smart connectivity and easy data management

The free EuroSoft® connect App makes it effortless to transfer measurement data to smartphones, tablets, or PCs via Bluetooth® or QR code. All BlueLine® instruments integrate seamlessly with the app, enabling convenient documentation, visualization of live readings, and long-term monitoring.

With the optional data logger function, measurements can be tracked and analyzed over time – perfect for system optimization and reporting. Results can be shared instantly through cloud services, email, or management software, and the app is fully compatible with iOS, Android, and Windows platforms.



EuroSoft® connect app












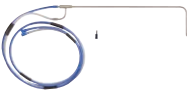









CAPBs® – Smart. Fast. Versatile.

Transform your instrument from a simple measuring tool into a versatile multifunctional instrument with the CAPBs® system. Easily pair your BlueLine® instruments with over 35 sensor units and sets from the proven CAPBs® range to perform almost any measurement task with precision and efficiency – including pressure, gas leak detection, temperature, and humidity.

With wireless Bluetooth® connectivity, CAPBs® connect instantly to your measuring instruments or mobile devices, enabling a transition to smart, digital measurement solutions.



Accessories			
	Article	Description	Part no.
	Flue gas probe	170 mm, Ø 8 mm, with condensate filter cartridge	500265.1 + 500192
		170 mm, Ø 8 mm, with condensate filter cartridge and draft	500268.4 + 500192
		290 mm, Ø 8 mm, with condensate filter cartridge and draft	500267.3 + 500192
	Flue gas probe	240 mm, Ø 8 mm, with condensate filter cartridge and draft	500246.1 + 500192
	Condensate filter cartridge	With filter disc	500192
	Filter package for small condensate trap	5x particle filter, 5x teflon membrane	500214
	Intermediate filter NO _x /SO _x	For connection Ø 8 mm, with 1 refilling	511064
	Refilling for intermediate filter	5 pieces	511066

Accessories			
	Article	Description	Part no.
	Combustion air sensor	80 mm, with magnet and cone, TÜV certified	500141.1
	Combustion air sensor	20 mm, with cone	500141.4
	Combustion air sensor	200 mm, with cone, TÜV certified	500147
	Pitot tube	630 mm, Ø 6 mm, max. 180 °C	500238
	Clamp probe CP 100	Pipe diameters up to 45 mm, temperature range from -40 to 200 °C	525248
	Air sensor	For ambient temperature measurement	521844
	EUROprinter II BLE	Compact IR & Bluetooth® printer, with magnets	524346
	EUROprinter II	Compact infrared printer, with magnets	524340
	Printer paper	For EUROprinter Thermo, 5 rolls	523374
	Power supply adapter	For all BlueLine® instruments	523493
	Charging and data cable USB-C	USB to USB-C, length: 1 m	524697
	Display protection foil	Including application instructions	511393
	Professional hard-shell case	Robust case with document compartment, foam inlet and key-lock	511315
	Compact case	Small and robust, with foam inlet and document compartment	511304
	Option data logger	Logging once per second during measurements, microSD card required	511010



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SYSTRONIK

Messtechnologie

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Subject to change - v26001

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