BlueLine®

BLUELYZER® ST

Flue gas analyzer

BLUEλYZER® ST

Favoriten

Abgas-messung

CO Umgeb.-messung

Temp.-messung

Druck-verlust

Bluetooth®

TÜV SÜD
EN 50378

TÜVRheinland
ZERTIFIZIERT

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

CO: EN50379-3

QUALITY MADE BY SYSTRONIK

Many modern central heating systems are adjusted to CO_2 (carbon dioxide) for optimal performance and safety. In order to do this, measuring the composition of the flue gas is essential. Besides carbon dioxide, the concentration of carbon monoxide and the resulting toxicity index are of great importance for safety and for environment considerations. The BlueLine® BLUELYZER® ST offers an accurate flue gas analysis for managing and maintaining central heating systems in an unrivalled compact form.

BLUELYZER® ST is the universal, handheld measuring instrument for measuring small and medium-sized oil and gas fired heating systems and for CO concentration checks at gas fired systems. The fully-featured HVAC all in one analyzer also provides exact calculation of the Eta value for all condensing heasting systems with fuel-specific dew point calculation.

There are a variety of data interfaces, such as Bluetooth® (BLE), infrared and microSD 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 (carbon monoxide)
- Draft pressure
- T_{air} (ambient temperature)
- T_{gas} (flue gas temperature)

Calculation of:
- CO_2 (carbon dioxide)
- CO undiluted
- Difference in temperature
- Combustion efficiency
- Lambda (excess air)
- Flue-gas losses
- CO_{ref} (O_{2ref} configured)
- T_{au} (dewpoint)

The appliance only has 5 controls, a clear menu structure and a large TFT colour display. The built-in rechargeable Li-ion battery offers an operation time of 8 hours. You can read the measured values on the display, store them or print them out.

The drop-down menu with colored icons appears immediately after activating the BLUELYZER® ST. The arrow keys can be used to choose following programs: flue gas analysis, temperature measurement, measurement of the concentration of carbon monoxide in the environment, adjustment of the instrument settings or editing the microSD memory.

Small but powerful

Connection plug for draft/pressure

Connection plug for flue gas

Protective holster with magnets

TFT color display

4.6 O2 Vol. %
31 CO ppm
58 Tgas °C
27.7 Tair °C

Fluegas Natural gas   01.09.12 13:15

Enter key

Escape key

Navigation key

On/Off key

143 mm

66 mm

Connection plug for flue gas

Connection plug for draft/pressure

Connection for ambient temperature

Connection for flue gas temperature

37 mm

Top view

microSD card slot

Infrared port for EUROprinter

Loudspeaker

USB port

Bottom view

Extremly compact
The BlueLine® BLUELYZER® ST is very compact and therefore easy to handle and transport. However, the appliance's small size is not at the expense of quality. You can make the same high quality demands on the BLUELYZER® ST as on any other BlueLine® measuring instruments. Due to the clever design, everything is put in a convenient and logical place.

EN50379 Part 1 and 2
The EN50379 is the European standard in which the permissible measurement techniques, for measurements of combustion appliances, are specified. The BLUELYZER® ST has EN50379 part 2 certification for measuring O_2, CO_2 and temperature with the exception of CO (EN 50379-3).

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

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

Draft / pressure

Measuring range	±40 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

ambient 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

General specifications

Dimensions H x W x D	143 x 66 x 37 mm
Weight	275 g
Material housing	Plastic (PA)
Display type	2.8" TFT (240 x 320 pixels)
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 microSD card Wireless IR connection with optional EUROprinter
Connection	Gas: 1x Ø 8 mm Pressure: 1x Ø 7 mm Temperature: 2x Thermocouple socket
Power supply	Mini USB mains unit (5 V)
Battery type	rechargeable li-ion battery 3.6 V / 1,800 mAh
Memory type	optional microSD card up to 16 GB
Ingress protection rating	IP42 (EN 60529)

Compact
Flue gas analysis, pressure measurement (draft) and (differential) temperature measurement with the world's smallest, fully-featured HVAC all-rounder with TFT colour display

Safety
CO ambient measurement with two freely adjustable alarm thresholds.

Extensive
Fully-fledged temperature measurement program, differential temperatures (e.g. flow/return) can also be determined

Hold function
Display shows the measured value for a given period of time while the measurement keeps running in the background

Personalized
Measurement programs and measured values can be freely edited

CAPBs® enabled

Memory function
with up to 100 measurement logs

Maximum flexibility in data documentation

The free EuroSoft® connect App allows to transmit measured values to smartphones, tablets or PCs via QR code or Bluetooth®.

All BlueLine® measuring instruments can be used together with this app for documentation and visualisation of "live" measurement results, logs and long-term measurements. Ideal for adjustment and documentation with the optional data logger function. Measurements can be shared in multible ways (e.g.: cloud services, email, etc.). The evaluation software can be used on iOS, Android or Windows operating systems.

connect

Download on the App Store

GET IT ON Google Play

Accessories		
Article	Description	Part no.
Flue gas probe	170 mm, Ø 8 mm, with condensate filter cartridge	500265.5
	170 mm, Ø 8 mm, with condensate filter cartridge and draft	500268.5
Flexible flue gas probe	240 mm Ø 8 mm, with condensate filter cartridge and draft	500268.7
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 intermediatefilter	5 pieces	511066
Temperature probe for liquid/gas	Measuring range up to 900 °C	523035
Temperature probe surface	Measuring range up to 450 °C	523033
Combustion air sensor	200 mm, with cone	500147
Clamp probe for pipes	Pipe diameters from 5 to 36 mm, temperature range from –40 to 120°C	511098
Air sensor	for ambient temperature measurement	521844
EUROprinter BLE	Compact IR & Bluetooth® printer, with magnets	523525
EUROprinter II	Compact infrared high speed thermal printer, with magnets	524340
Printer paper for EUROprinter Thermo	5 rolls	523374

Accessories			
	Article	**Description**	**Part no.**
	Charging cable USB-mini	for all BlueLine® instruments, USB to USB-Mini, length: 1 m	523506
	Power supply adapter	for all BlueLine® instruments	523493
	microSD card with card reader	4 GB, for data logging	511035
	Option data logger	logging once per second during measurements, microSD card required	511010
	Database memory	Extension of memory function, customer database, customer information	511030
	Plastic case universal	light and robust, with foam inlet and document compartment	523372
	Aluminium case	small and robust, with foam inlet, document compartment and key-lock	511001

Quality since 1987

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

Distributor:

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