



BlueLine®

MAXISYSTEM ST

Gas treatment system





- **Reliable**
Automatic zero point with integrated fresh air valve for comfortable startup
- **Innovative**
Humidity sensor to verify the measurement and to protect the electrochemical cells (optional)
- **Enduring**
Designed for long term measurement up to 12 h
- **Comprehensive**
Smart system assistant using status of fresh air valve, heated line, cooler and optional humidity sensor
- **User-friendly**
Robust and 7,5 kg lightweight instrument conceived for industrial application

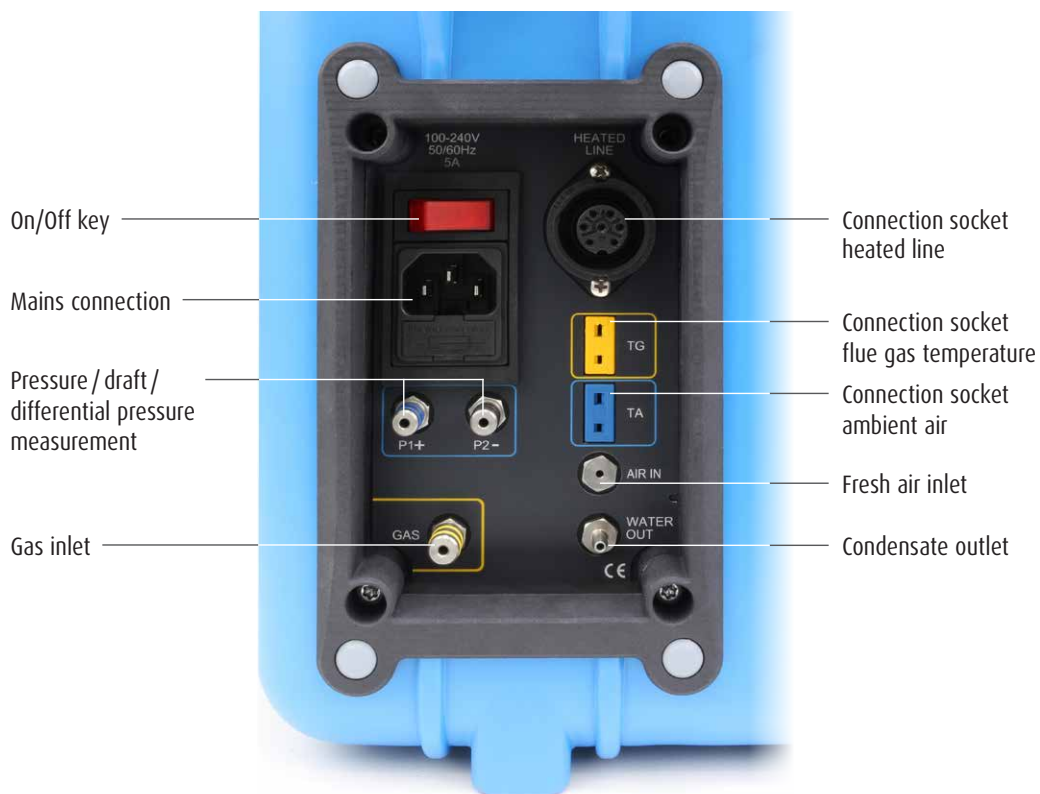
Developed for high-precision gas analysis

Description

The portable gas treatment system MAXISYSTEM ST is designed for applications at changing sites requiring high-precision gas analyses which involving pollution and condensate in the flue gas. For the analysis of strongly water-soluble gases (NO₂ and SO₂), the use of a gas treatment system is indispensable. The complete gas treatment system is contained in a small, sturdy case so that precise and reproducible analyses can be performed quickly and with high reliability. The MAXISYSTEM ST is conceived to dock a MULTILYZER STx flue gas analyzer which perform the measurement using the gas treatment system of the MAXISYSTEM ST.

The gas cooler operates with an electronically controlled Peltier element which reduces the dew point to an optimum value of approx. 5 °C. Via a hose pump the condensate is discharged. The gas treatment system indicates the operating states of the individual system components by means of status indicators. The gas treatment system is developed for quasi-continuous operation with an operating time of up to 12 hours. An LED status indicator provides information on the cooler temperature, the function of the Peltier element and the heating hose temperature.





Application

The MAXISYSTEM ST gas treatment system together with the MULTILYZER STx flue gas analyzer is an important tool for adjusting engines or heating plants and combustion systems to optimum effect. The MAXISYSTEM ST is used, for example, during commissioning, at regular maintenance intervals, or for troubleshooting unstable operational processes. Exhaust gas measurement is necessary to adjust the engine / plant to optimum operating parameters while complying with the limit value regulations in force - this often entails measurements being taken over several hours. In particular, the high and fluctuating proportion of NO₂ in the flue gas makes the separate measurement of NO and NO₂ necessary to provide a highly accurate indication of the real NO_x value.

In most countries, operation of all types of industrial plants (e.g. large power stations, steelworks, cement works, glass works, and chemical plants), and local authority facilities, right through to small production sites is subject to strict regulations governing exhaust gas emissions into the atmosphere. Suitable measures are taken to ensure and regularly verify that the components defined as pollutants do not exceed certain limit values in the flue gas.

In combination with the MULTILYZER STx flue gas analyzer, the MAXISYSTEM ST gas treatment system can be used to carry out a preliminary analysis before an official emissions reading, or - depending on the country and directive - the actual official compliance testing.



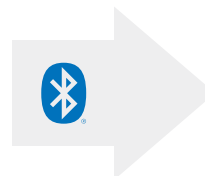
Technical specifications

Dimensions H x W x D	350 x 420 x 220 mm
Weight	7.5 kg
Material housing	Plastic
Air pressure range	750 hPa to 1100 hPa
Humidity range	20 % to 80 % rH
Max. flue gas dust load	20 g/m ³
Max. humidity load	70 °C dewpoint temperature
Max. cooling capacity (at 25 °C)	72 kJ/h
Adjustable heated line temperature	100 °C to 180 °C
Operating temperature	0 °C to 40 °C
Storage temperature	-20 °C to 50 °C
Data interace	Bluetooth® Low Energy to MULTILYZER STx
Power supply	AC mains unit 220 to 240V (50 to 60 Hz)
Ingress protection rating	IP42 (DIN EN 60529)

i Please note: The MAXISYSTEM ST can only be used in combination with the MULTILYZER STx.



MULTILYZER STx



EuroSoft® connect app

EuroSoft® connect App

BlueLine® measuring instruments can be used for processing and visualisation of „live“ measurement results/logs. Ideal for long-term measurements and adjustments or for use of the optional data logger function for professional, comprehensive documentation of results for customers.

The free EuroSoft® connect App or software allows you to transmit measured values to smartphones, tablets or PCs. The data can then be further processed or sent via e-mail. The evaluation software is suitable for BlueLine® measuring instruments and can be used on iOS, Android or Windows operating systems.

Accessories MULTILYZER STx



Base handle for interchangeable probes
with termocouple, draft and gas connector

2.4 mm Part no. 510940

5.0 mm Part no. 510941



Heated sampling line for interchangeable probes
with termocouple, draft and gas connector

3.0 m Part no. 524437



Interchangeable probes AWS-S, Ø 8mm

300 mm
Part no. 523229

750 mm
Part no. 523231

1500 mm
Part no. 523234



Spare parts package gas preparation

5 x infiltec filter PVDF
5 x teflon membrane

Part no. 500216



Air sensor

Part no. 500129



Transport bag

with with shoulder strap
and backpack function

Part no. 524651



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Messtechnologie

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