Flue gas analyser MAXILYZER NG Plus

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- Separate measurement programmes for flue gas analysis, pressure and temperature
- Gas treatment for reproducible gas analyses
- Sensor equipment with up to six measuring cells possible
- Peltier gas cooler to avoid the formation of condensate in the flue gas analyser

Application

For universal use at small and medium-sized oil, gas and pellets fired systems according to the German Federal Immission Act as well as for CO concentration safety checks at gas fired systems. Ideally suited for servicing solid fuel systems (e.g. log wood fired systems with short-term CO peaks up to 40,000 ppm) or bivalent, modulating CHP systems. For precise gas analyses during long-term measurements or at different sites subject to pollution and condensate in the flue gas. Suitable for measurements of highly water-soluble gases (e.g. NO_2 and SO_2) since the measured gas is cooled and filtered.

Description

Flue gas analyser with integrated thermal printer and a gas treatment system in a dust- and splash water-protected plastic housing. A graphical LC display allows you to display five or ten measured values. Hold and zoom functions, core search, conversion of units and graphical representation of the measured values as per combustion chart ensure maximum ease of use. With sensor status diagnostics, CO limit value monitoring with sensor protection function.
MAXILYZER NG Plus can be equipped with up to six measuring cells (O_2, CO_{H2}, $CO_{40,000}$, NO, NO_2, SO_2). Calculated parameters: CO undiluted (air-free), lambda, CO_2, eta efficiency, flue gas loss qA. The gas to be measured is cooled by means of a Peltier cooler and filtered by means of a fine particulate filter. An optional Bluetooth interface is available for communication with, for example, a PC or a netbook.

Technical specifications

Measuring ranges (measured values)

Flue gas temperature/differential temperature
0/1,000 °C

Air temperature/combustion air temperature
-20/+200 °C

Draft
± 70 hPa

Differential pressure
± 150 hPa

O_2
0/21 % by volume

CO_{H2}
0/4,000 ppm

CO
0/40,000 ppm

NO
0/5,000 ppm

NO_2
0/500 ppm

SO_2
0/5,000 ppm

Indication (calculated values)
CO_2, CO undiluted (air free), lambda, eta efficiency, flue gas losses qA

Operating temperature range
Ambient: +5/+40 °C
Storage: -20/+50 °C

Weight (housing)
6.9 kg

Dimensions
W x H x D 410 x 175 x 330 mm

Display
LCD, W x H: 60 x 80 mm

Degree of protection
IP 65 (when closed)

Connection draft
Draft/pressure: Ø 7 mm
Gas: Ø 8 mm

Supply voltage
Gas analysis:
NiMH battery (6 V/4.5 Ah) or mains operation (230 V)

Cooler and heated line:
mains operation (230 V)

Hours of operation
24 hours

Memory
Up to 100 memory blocks

Interfaces
USB, Bluetooth

Approvals
BImSchV, KÜO (TÜV ByRgG 247),
EN 50379-2

Scope of delivery
Maxilyzer NG Plus with max. 6 cells (O_2, CO_{H2}, $CO_{40,000}$, NO, NO_2, SO_2), calibration report, case with charger, ambient air probe, flue gas combination probe, connection kit for differential pressure measurement

MAXILYZER NG Plus O_2, CO_{H2}, NO, draft, differential pressure		
MAXILYZER NG Plus O_2, CO_{H2}, NO, SO_2, draft, differential pressure		
MAXILYZER NG Plus O_2, CO_{H2}, NO, $CO_{40,000}$, NO_2, draft, differential pressure		
MAXILYZER NG Plus O_2, CO_{H2}, NO, SO_2, $CO_{40,000}$, NO_2, draft, differential pressure		
MAXILYZER NG Plus O_2, CO_{H2}, $CO_{40,000}$, draft, differential pressure		
MAXILYZER NG Plus O_2, CO_{H2}, NO, $CO_{40,000}$, draft, differential pressure		
Options: Immediate installation when instrument is ordered		
Bluetooth		
Mean value programme for solid fuels **in the case of solid fuel systems**		
CO measuring cell: CO-40,000 ppm		
SO_2 measuring cell: SO_2-2,000 ppm		
Accessories		
Gas sampling probe PSP 4000: portable, heated		
Heated line: 5 m*		
Heated line: 3 m*		
Printer paper (5 rolls)		
Please enquire for maintenance contracts.		

* Probe tube 300 mm and cone included.