

Mobile multi component analyser



Mobile measuring system for temporary emission measurement of pollutants in flue gas and for process control

APPLICATION

The analyser evaluates internally all specification-depending required concentrations with all necessary compensations and standardisations. The mainboard is responsible for all tasks of photometer control, sensor evaluation, concentration calculation and interface communication. The zero point setting is done fully-automatic with instrument air. Via USB connection the measuring values are transferred to the delivered PC software.

MEASURING RANGES			
	Meas. range 1	Meas. range 2	Meas. range 3
CO:	0...75 mg/m ³	0...300 mg/m ³	0...5000 mg/m ³
CO ₂ :	0...25 vol. %	0...50 vol. %	-
NO:	0...200 mg/m ³	0...400 mg/m ³	0...3000 mg/m ³
NO ₂ :	0...50 mg/m ³	0...500 mg/m ³	-
N ₂ O:	0...50 mg/m ³	0...3000 mg/m ³	-
NH ₃ :	0...10 mg/m ³	0...50 mg/m ³	0...500 mg/m ³
SO ₂ :	0...75 mg/m ³	0...300 mg/m ³	0...2500 mg/m ³
CH ₄ :	0...50 mg/m ³	0...500 mg/m ³	-
CH ₂ O:	0...10 mg/m ³	0...20 mg/m ³	0...100 mg/m ³
HCl:	0...15 mg/m ³	0...90 mg/m ³	0...5000 mg/m ³
HF:	0...20 mg/m ³	-	-
H ₂ O:	0...40 vol. %	-	-
O ₂ :	0...25 vol. %	-	-
<i>Other components and measuring ranges on request.</i>			

YOUR BENEFITS AT A GLANCE

- mobile hot gas analyser system (without gas cooler)
- continuous, extractive measurement of up to twelve infrared components and oxygen
- field-proven components, modern photometer technology
- easy placement directly at the measuring point
- pre-calibrated → immediately deployable
- integrated control
- integrated zero gas provision
- self-control (additional control of inlet temperature)
- visualisation via integrated tablet, with data logger function

PRECONDITIONS ON SITE

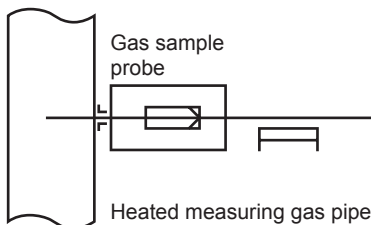
- installation place indoors and dust-free with protection against wetness and percussions/vibrations
- power supply and PC/laptop/tablet* with USB interface (resolution min. 1024 x 768 Pixel; Windows XP Professional upwards for installation of delivered user software)
- instrument air according to ISO 8573.1, class 2
- appropriate gas sampling

* tablet as additional device available (option)

SYSTEM DESIGN

Power supply 230 V AC, 50 Hz

Signals (optional)



TECHNICAL DATA

Housing:	mobile housing with carrying handles; IP54 (in case of closed housing cover) / IP31 (in case of opened housing cover); 536 mm x 453 mm x 480 mm (w x h x d), approx. 46 kg (depending on fitments)
Measuring methods:	<ul style="list-style-type: none"> • bi-frequency measuring method (NO₂, SO₂, H₂O, CO₂, HF) • gas filter correlation (CO, NO, HCl, NH₃, N₂O, CH₄) • zirconium dioxide sensor (O₂)
Number of meas. components:	up to 12 infrared components (dependent on application) and oxygen
Accuracy:	< 2% of the respective measuring range
Ambient conditions:	operation: 5...40 °C (temperature stability max. ± 5 °C); storage: 5...35 °C (temperature stability max. ± 3 °C); relative humidity: max. 90% (non-condensing)
Zero point correction:	automatical with instrument air
Sensitivity correction:	with test gas, once in 6 months (sensitivity tests as standard with a concentration of 80% of the measuring range)
Standardisation:	dry, wet
Gas conveyance:	injector
Media temperature:	max. 200 °C
Display / Operating:	user software (MCA10m_HID.exe) via USB connection
Data storage:	SSD, data logger function via tablet/ PC
Interfaces:	USB, other optional
Inputs/outputs:	optional
Controller outputs/ maximal power:	<ul style="list-style-type: none"> • controller of probe: max. 800 W • controller of measuring gas pipe: max. 1000 W
Power supply:	230 V AC, 50 Hz (optional: 115 V AC, 60 Hz), 400 W / max. 2500 W (dependent on periphery)
Other functions:	gas path continuously heated (standard 185 °C, higher temperatures on request), cross-sensitivity correction, air pressure correction
<i>Special models are possible on request.</i>	