Mobile multi component analyser





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

APPLICATION

The MCA 16 m is a hot gas analyser in lightweight 2-case design. It measures the concentrations of up to ten infrared gas components and evaluates them internally. Visualisation, operating and data logging are realised via the delivered software.

The unique characteristic is that instrument air supply is not necessary for its operation. The zero point setting is carried out with ambient air.

MEASURING RANGES			
	Meas. range 1	Meas. range 2	Meas. range 3
CO:	075 mg/m³	0300 mg/m ³	05000 mg/m ³
CO ₂ :	025 vol. %	050 vol. %	-
NO:	0100 mg/m³	0400 mg/m ³	03000 mg/m ³
NO ₂ :	050 mg/m³	0500 mg/m ³	-
N ₂ O:	050 mg/m³	03000 mg/m ³	-
NH ₃ :	010 mg/m³	050 mg/m³	0500 mg/m³
SO ₂ :	050 mg/m ³	0300 mg/m ³	02500 mg/m ³
CH₄:	050 mg/m³	0500 mg/m ³	-
HCI:	015 mg/m³	090 mg/m³	05000 mg/m ³
H ₂ O:	040 vol. %	-	-
O ₂ :	025 vol. %	-	-
Other components and measuring ranges on request.			

YOUR BENEFITS AT A GLANCE

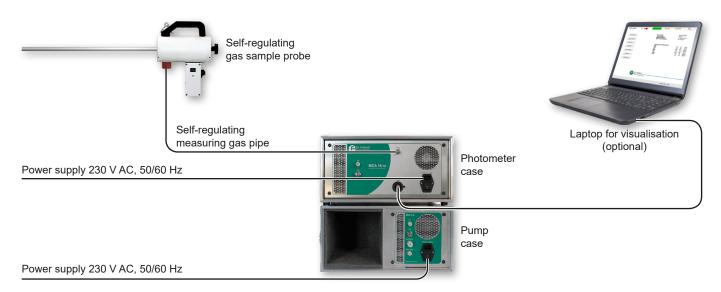
- mobile hot gas analyser system as lightweight 2-case design (without gas cooler)
- no instrument air necessary
- up to twelve infrared components and oxygen
- field-proven components, modern photometer technology
- · self-sustaining operation by pump supply
- · long operation times, high reliability
- · easy placement directly at the measuring point
- pre-calibrated → immediately deployable
- · integrated zero gas provision with ambient air
- visualisation and operating via delivered software

PRECONDITIONS ON SITE

- installation place indoors and dust-free with protection against wetness and percussions/vibrations
- provision of non-contaminated ambient air for zero point setting
- 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)
- · appropriate gas sampling
- * tablet as additional device available (option)



SYSTEM DESIGN



TECHNICAL DATA			
Housing:	mobile housing as lightweight 2-case design, IP30; 475 mm x 250 mm x 450 mm (w x h x d); weight: photometer case 19.5 kg, pump case 9.5 kg (depending on fitments)		
Measuring methods:	 bi-frequency measuring method (NO₂, SO₂, H₂O, CO₂) gas filter correlation (CO, NO, HCl, NH₃, N₂O, CH₄) zirconium dioxide cell (O₂) 		
Number of meas. components:	up to 10 infrared components (dependent on application) and oxygen		
Accuracy:	< 2% of the respective measuring range		
Ambient conditions:	operation 040 °C (temperature stability max. 5 K/h); storage 535 °C (temperature stability max. 5 K/h); relative humidity: max. 90% (non-condensing)		
Pressure measurement:	measuring range: 01600 mbar, accuracy: ± 0.1%		
Flow measurement:	measuring range: 01000 l/h, accuracy: ± 2%		
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		
Calibration:	automatically with ambient air, manually with nitrogen		
Gas conveyance:	bellows pump (in separate pump case), compressed-air connection not necessary		
Heat-up phase:	2 to 3 hours		
Media temperature:	max. 200 °C		
Display / Operating:	operating software via USB connection; storage function via tablet/laptop		
Power supply:	230 V AC, 50/60 Hz (per case), 350 W (photometer case) / 100 W (pump case)		
Other functions:	gas path continuously heated (standard 185 °C, higher temperatures on request), cross-sensitivity correction, air pressure correction		
Special models are possible on request.			

Dr. Födisch Umweltmesstechnik AG -

Zwenkauer Strasse 159 • 04420 Markranstädt • Germany

Phone: +49 34205 755-0 • Fax: +49 34205 755-40

E-mail: sales@foedisch.de

