Emission Monitoring System CEMSelect OEM

Gas Analysis

The CEMSelect OEM emission systems are emission monitoring systems certified for the Directive 2010/75/EU scope of application. They meet the requirements of EN 14181 QAL-1 (tested according to DIN EN ISO 14956) and are EN 15267-3 certified.

The systems are intended for continuous monitoring of harmful substances in combustion system flue gases subject to 13th & 17th as well as 27th German Federal Immission Control Ordinance and Technical Instructions on Air Quality Control.

The emissions monitoring system was designed for universal use and can be used as both a continuous monitoring system ordered by authorities as well as to measure process gas.

Integrating an approved analysis unit to record the mass concentrations of the emissions to be measured as well as reference and operating data will provide a ready to use system.

Flexible application
Application-specific solution
Low maintenance
Gas conditioning components from in-house production
Decades of experience in planning and building complex analysis systems
Company-direct service and maintenance as well as fast supply of replacement and wear parts

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Description

Equipped systems with continuous emission measurement, which require a license per German Federal Immission Control Act, are regulated by the regional legislator based on the application.

Using continuous and documented data provides evidence for the legislator on the functionality of the emission reduction equipment of the customer system. In addition, the data obtained can be used as core-related control variables for process control and the plant installer.

Technical Data

Technical Data CEMSelect OEM	
Analysis cabinet	
Dimensions (h x w x d):	2100 x 800 x 800 mm
Material:	Indoor installation: Sheet steel, RAL 7035 Outdoor and indoor installation: GFK, RAL 7035
Protection class:	IP54
Climatic conditions	
Ambient temperatures:	+5 °C to +40 °C with fan -15 °C to +52 °C with heater and air conditioner
Relative humidity:	75 % RH, non-condensing
Analysis	
Analyser:	BA 5000, as 19” rack, 3HE
Measuring principle:	NDIR, electrochemistry, paramagnetism
Measuring components:	CO, NO, SO_2, O_2, N_2O [1], CO_2 [1], CH_4 [1]
Accuracy:	2 % measuring range value
Response times:	< 180s [2]
Zero offset:	automatic
Electrical data	
Power supply:	230 V AC / 50 Hz [3]
Power input:	max. 4 kW without heated sample gas line
Signals:	4-20 mA active analogue outputs [4] potential-free contacts

[1] Not tested for suitability per DIN EN 15267-3

[2] Varies by specification

[3] Other voltages and frequencies upon request

[4] Other interfaces upon request

Certification ranges

Components	Smallest measuring range	Additional measuring range	Additional measuring range
CO	0...200 mg/m³	0...1,250 mg/m³	--
NO	0...150 mg/m³	0...750 mg/m³	0...2,000 mg/m³
SO_2	0...400 mg/m³	0...2,000 mg/m³	0...7,000 mg/m³
O_2 (EC / P.)	0...25 Vol-%	--	--