

SmartCEMS GHG **ONLINE GAS MONITORING SYSTEM**

 $CH_4 \mid CO_2 \mid CO \text{ and } N_2O.$

Multigas analyser for greenhouse gases

Complies with international standards: EN14181, WA CEMS code, EPAs, NGER Available in IECEx for installation in Zone 1 explosive gas atmosphere

DESCRIPTION

The SmartCEMS® GHG is a highly reliable stationary emission and process analyser for direct and indirect greenhouse gases (CH4, CO2, CO and N2O).

The SmartCEMS® GHG is designed for online monitoring of greenhouse gases (other gases available on demand) in emissions and process gases at industrial setup and urban utilities. It suits a large field of applications such as upstream or downstream of Odour Control Systems (OCS), fugitive emissions from waste recycling facilities, continuous emissions monitoring (CEMS) at burners plants and associated gas treatment centres.

Available for permanent installation or rental, AguaGas ensures full support, from setup to maintenance.

ANALYTICAL PERFORMANCES

TARGET GAS	RANGE RESOLUTION	ACCURACY	TIME T(90)
СО	0-1% 0.01%	±10ppm abs.	50s
N_2O	2000ppm 1ppm	± 1 ppm abs.	50s
CH ₄	20000 ppm 1 ppm	± 10 ppm abs.	50s
CO ₂	25% 0.1%	±0.5%abs.	50s
O ₂	20.95% 0.1%	± 0.1 abs. or 5% rel.	45s
O ₂	100.00% 0.1%	± 0.1 abs. or 5% rel.	45s
O ₂	25.00% 0.1%	±0.1%abs. or 5%rel	45s
O ₂	100.00% 0.1%	±0.1%abs. or 5%rel	45s





HIGHLIGHTS

- ONLINE **MONITORING**
- **COMPACT DESIGN**
- POWERFUL SENSOR CONFIGURATION
- **INDUSTRIAL SITE AND URBAN UTILITIES**
- **MODULAR AND FLEXIBLE**
- **COST EFFECTIVE**

CERTIFICATIONS

O2, CO: ISO 12039, CTM-030 CO2: ISO 12039, OTM-13 CH4: ISO 12039, OTM-13 CxHy: ISO 12039, OTM-13

NO, NO2: EPA Method CTM022 VOC: USEPA Method 21 PID

Flow, velocity, temperature: USEPA method 2C



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SPECIFICATIONS | Analyser

Dimensions (WxHxD):
 Weight:
 Casing's material:
 Protection grade:
 Mounting plate:
 Operation conditions:
 Storing temperature:
 Power consumption:
 Data logger:
 Display:
 Gas pump:
 ix extr. point pressure:
 rent analogue outputs:
 Dieital inputs:

240mmx360mmx160mm

4kg - 5 kg ABS

IP20

596mm(H)x450mm(W) | aluminum | 1,9 kg T:10°C+50°C, RH:5%+90% (non condensing) 0°C - 55°C

30W max (analyser unit only)

SD flash card \mid max 4GB \mid practically unlimited Backlit LCD \mid 20 characters x 4 lines

Diaphragm | max 2l/min | std 1.5l/min (90l/h) Atmospheric ±200hPa

4 outputs 0mA + 20mA or 4mA + 20mA

4 outputs 0V + 5V or 0V + 10V

2 inputs, TTL levels, floating = high level

B type USB socket

SmartCEMS Multiplexer

Stationary Gas Conditioning Unit

SmartCEMS multiplexer for sequential monitoring of up to 16 sources with user configurable automated sampling sequences.



SPECIFICATIONS | Gas conditioning system

Dimensions (WxHxD

Weight: Drying method: Cooler type:

Cooling temperature

Ready to operate after:
Operating conditions:
Storing temperature:
Max gas flow efficient drying:
Gas filters:
Filter insert:
Power supply:

Condensate removal: Peristaltic pump capacity: Power consumption: without filters: 110mmx205mmx160mm with filters: 145mmx240mmx160mm 1790g (single filter version)

Water condensation by rapid cooling down Based on Peltier cooling element w/ fan (12VDC) Constant, about +1°C, output gas dewpoint about +4°C

5 minutes

T:0°C+50°C, RH:5%+90% (non condensing)

-20°C - 60ªC

100l/h (at inlet gas temp 100°C and RH 100%) 1 (optionally 2) | PA body, PC cover, viton sealing 42mm | 26mm | 32mm | glass fibre | 2µm Std: via maMoS power supply (through 3-wire power cable)

Standalone version via external suppy module: 85V + 264V AC/24V DC With built-in peristaltic pump

38ml/min 30W

MADE TO MEASURE

ENVIRONMENTAL MONITORING AND PROCESS AUTOMATION

Emissions and Process



Indoor and Ambient Air



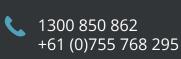
Industrial and Surface Water



Gas Detection



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