AQUA GAS

SmartCEMS GHG
ONLINE GAS MONITORING SYSTEM
CH_4 | CO_2 | CO 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, AquaGas ensures full support, from setup to maintenance.

ANALYTICAL PERFORMANCES

TARGET GAS	RANGE|RESOLUTION	ACCURACY	TIME T(90)
CO	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

1 ONLINE MONITORING

2 POWERFUL SENSOR CONFIGURATION

3 MODULAR AND FLEXIBLE

4 COMPACT DESIGN

5 INDUSTRIAL SITE AND URBAN UTILITIES

6 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

SCAN FOR MORE INFO

CALL NOW

📞 1300 850 862
+61 (0)755 768 295

AQUA GAS

CONTACT DETAILS

info@aquagas.com.au ✉   aquagas.com.au 🌐

Elanora, QLD
Australia 📍

SPECIFICATIONS | Analyser

Dimensions (WxHxD):	240mmx360mmx160mm
Weight:	4kg - 5 kg
Casing's material:	ABS
Protection grade:	IP20
Mounting plate :	596mm(H)x450mm(W) | aluminum | 1,9 kg
Operation conditions:	T:10°C+50°C, RH:5%+90% (non condensing)
Storing temperature:	0°C - 55ªC
Power consumption:	30W max (analyser unit only)
Data logger:	SD flash card | max 4GB | practically unlimited
Display:	Backlit LCD | 20 characters x 4 lines
Gas pump:	Diaphragm| max 2l/min | std 1.5l/min (90l/h)
Max extr. point pressure:	Atmospheric ±200hPa
Current analogue outputs:	4 outputs 0mA + 20mA or 4mA + 20mA
Digital inputs:	4 outputs 0V + 5V or 0V + 10V
Digital outputs:	2 inputs, TTL levels, floating = high level
Computer com. interface:	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):	without filters: 110mmx205mmx160mm with filters: 145mmx240mmx160mm
Weight:	1790g (single filter version)
Drying method:	Water condensation by rapid cooling down
Cooler type:	Based on Peltier cooling element w/ fan (12VDC)
Cooling temperature :	Constant, about +1°C, output gas dewpoint about +4°C
	5 minutes
Ready to operate after:	T:0°C+50°C, RH:5%+90% (non condensing)
Operating conditions:	-20°C - 60ªC
Storing temperature:	100l/h (at inlet gas temp 100°C and RH 100%)
Max gas flow efficient drying:	1 (optionally 2) | PA body, PC cover, viton sealing
Gas filters:	42mm | 26mm | 32mm | glass fibre | 2μm
Filter insert:	Std: via maMoS power supply (through
Power supply:	3-wire power cable) Standalone version via external suppy module: 85V + 264V AC/24V DC
Condensate removal:	With built-in peristaltic pump
Peristaltic pump capacity:	38ml/min
Power consumption:	30W

MADE TO MEASURE

ENVIRONMENTAL MONITORING AND PROCESS AUTOMATION

Emissions and Process

Industrial and Surface Water

Indoor and Ambient Air

Gas Detection

CALL NOW

📞 1300 850 862
+61 (0)755 768 295

AQUA
GAS

CONTACT DETAILS

info@aquagas.com.au ✉   aquagas.com.au 🌐

Elanora, QLD
Australia 📍