

SmartCEMS SYNGAS ONLINE GAS MONITORING SYSTEM

CO | CO₂ | CH₄ | O₂ | H₂ | CxHy

Process analyser for Biogas Plant and Odour Control Systems

Available in Purged & Pressurised enclosure for installation in hazardous areas. Software providing a powerful user interface for analysis settings, acquisition, trending and reporting capabilities.

DESCRIPTION

Achieve precise Syngas composition monitoring with SmartCEMS® SynGas.

Tailored for Biomass, Direct Reduced Iron (DRI), and Syngas facilities, SmartCEMS® SynGas ensures simultaneous, continuous and precise tracking of CO, CO2, O2, N2, CH4, and H2 in gas streams.

Compact yet robust, it meets plant operators' needs and presents a cost efficient substitute to gas chromatographs. Its user-friendly interface allows for seamless customisation. Fully supported by AquaGas with extensive technical support, encompassing installation, service contracts as well as handling of spare parts and standards.

Embrace efficiency and reliability with SmartCEMS® SynGas.

ANALYTICAL PERFORMANCES

GAS	LoD	Unit
СО	0.01	%vol.
CO ₂	0.01	%vol.
CH_4	0.01	%vol.
O ₂	0.01	%vol.
H ₂	0.01	%vol.
CxHy	0.01	%vol.





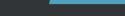




CERTIFICATIONS

02, 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



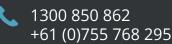


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CONTACT DETAILS





AQUA GAS



SPECIFICATIONS | Analyser

Dimensions (WxHxD):
Weight:
Casing's material:
Protection grade:
Mounting plate :
Operation conditions:
Storing temperature:
Power consumption:
Data logger:
Display:
Gas pump:
Max extr. point pressure:
Current analogue outputs:
Digital inputs:
Digital outputs:
Computer com. interface:

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 - 55ªC			
30W max (analyser unit only)			
SD flash card max 4GB practically unlimited			
Backlit LCD 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

without filters: 110mmx205mmx160mm

Water condensation by rapid cooling down

Based on Peltier cooling element w/ fan (12VDC) Constant, about +1°C, output gas dewpoint

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

100l/h (at inlet gas temp 100°C and RH 100%)

with filters: 145mmx240mmx160mm

1790g (single filter version)

B type USB socket

SPECIFICATIONS | Gas conditioning system

about +4°C 5 minutes

-20°C - 60ªC

38ml/min 30W

3-wire power cable)

module: 85V + 264V AC/24V DC With built-in peristaltic pump

Weight:

Cooler type:

GF4 for raw gas conditioning

Stationary Gas Conditioning Unit

The SmartCEMS® Syngas GF4 Gas conditioning unit is designed for continuous removal of tars and condensate from raw Syngas.



MADE TO MEASURE

ENVIRONMENTAL MONITORING AND PROCESS AUTOMATION



Industrial and Surface Water

Gas Detection



CALL NOW

Max gas flow efficient drying:



1300 850 862 +61 (0)755 768 295

1 (optionally 2) | PA body, PC cover, viton sealing 42mm | 26mm | 32mm | glass fibre | 2µm Indoor and Ambient Air Std: via maMoS power supply (through Standalone version via external suppy

AQUA Øgas

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