ABYSS AFG

Multigas analyser

aquagas
POLLUTION MEASUREMENT

CEMS MULTIGAS IR ANALYSERS

ABYSS FLUE GAS - AFG

The ABYSS Flue Gas NDIR gas analyser series is specially designed for online continuous and simultaneous monitoring of up to 5 components in flue gas. It is based on the micro-flow type non-dispersive infrared (NDIR) method for SO2, NO,CO, CO2 and O2 is measured by fuel cell method. This "rack-mount" analyser is compact, reliable and easy to operate. The standard applications are Continuous Emission Monitoring System (CEMS), combustion efficiency monitoring for various industrial furnaces or waste incinerator and boiler.

ANKERSMID Sampling

NO CO CO_2 SO_2 O_2

Highly durable to harsh process conditions

The ABYSS Flue Gas uses a single beam IR source system highly resistant to corrosive flue gases and harsh environments. The correctness of the consequent measurement, as well as the lifetime of the sensors are the key elements on which substantially depends the reliability of your monitoring system.

GAS	TECHNOLOGY	RANGE (max/min)	PRECISION	RESOLUTION	REPEATABILITY
NO	NDIR	0-5000 / 0-200 PPM	≤±1% FS	1 PPM	≤±1% FS
CO	NDIR	0-5000 / 0-200 PPM	≤±1% FS	1 PPM	≤±1% FS
CO2	NDIR	0 - 25 %	≤±1% FS	0.01%	≤±1% FS
SO2	NDIR	0-5000 / 0-200 PPM	≤±1% FS	1 PPM	≤±1% FS
O2	NDIR	0 - 25 %	≤±2% FS	0.01%	≤±1% FS

1300 850 862
info@aquagas.com.au

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AquaGas Pty Ltd
Unit 3/3 Wirranina Place
CURRUMBIN QLD4223

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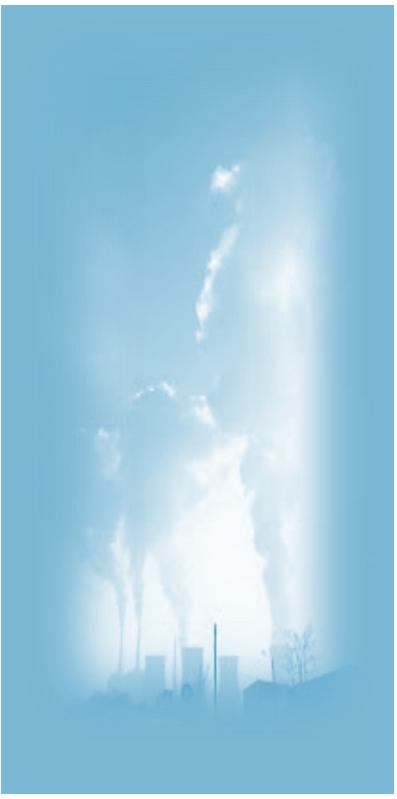


AFG models

GAS	MODELS	APPLICATIONS
SO2 - NO - CO - CO2 - O2	AFG900	CEMS
SO2 - NO - CO - O2	AFG800	CEMS
SO2 - NO - O2	AFG700	CEMS
SO2 - NO	AFG600	CEMS
SO2 - O2 or NO- O2	AFG500	CEMS & Process
SO2 or NO	AFG400	CEMS & Process
CO - CO2 - O2	AFG300	Combustion
CO (ppm content) - O2	AFG200	Combustion
CO (ppm content)	AFG100	Process

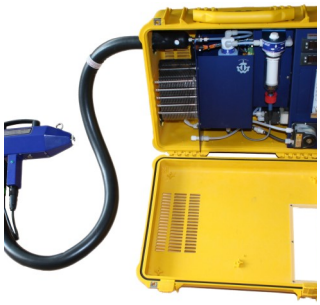
AFG Specifications

Flow	0.7-1.2 Lpm	Warm up time	5 min
Inlet pressure	2KPa - 50 kPa	Operating conditions	T: 0-50C/ P: 86-108 kPa/ RH: 5-85%
Response time	<10s (NDIR)	Enclosure	433×420×132mm /IP54 /12kg / 3U19”
Power supply	240VAC	Outputs	4-20mA / Alarm dry contact

AFG Key Features

- Proprietary infrared single beam Micro-Flow NDIR detectors
- RS 232 serial com port for real-time data download to external PC or laptop as text file, software included
- No interference from H2O on NO and SO2 readings
- Built-in automatic excess air coefficient and combustion efficiency calculation
- Keyboard and LCD display interface for configuration and calibration
- Online continuous monitoring of 5 gases simultaneously
- Optional built-in Printer
- 19 inches 3U - rack mountable
- Stainless steel connectors for gas inlet/outlet and zero air inlet ports
- Robust, reliable, easy to operate - Accurate cost effective solution to monitoring major constituents of a wide range of combustion process

AquaGas Products and Services

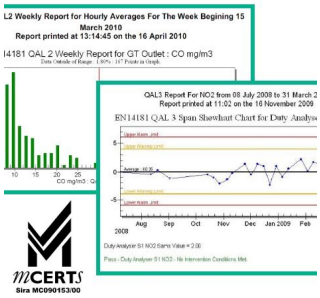


STACK TESTING

Portable equipment for short term measurement

WQMS

ONLINE water quality analysers



DATA ACQUISITION

States EPA approved Data Acquisition and Handling Software

ONSITE

Maintenance commissioning Training

AQUAGAS SYSTEM INTEGRATION

More than 14 years of experience in **environmental monitoring**, AquaGas commitment in implementing innovative, reliable and cost effective solutions is undeniable. Our main focus is to meet your application requirements in due time while maintaining high quality service and relationship. We have the **skills, products and services** in house with a full dedication to your monitoring needs, so please contact us when it comes to **environmental monitoring and industrial analysis**.

ANKERSMID SAMPLING

Ankersmid Sampling provides a complete range of **gas sampling and gas conditioning equipment**. All products like gas sample probes, gas coolers, compact conditioning systems, universal filters, NOx converter etc.... are designed, and manufactured by Ankersmid Sampling. ANKERSMID is well known on the market for more than **30 years** . Subsidiaries in several countries and more than 100 employees worldwide assures ANKERSMID in a **leading position** in the field of gas analysis and laboratory equipment.

Contact Us

Give us a call for more information about our services and products

AQUAGAS Pty Ltd

OFFICE BRISBANE

Unit 3/3 Wirranina Place

CURRUMBIN QLD4223

1300 850 862

(07) 5525 0600

Visit us on the web at **www.aquagas.com.au**

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INTEGRATED SOLUTIONS TO MONITOR THE ENVIRONMENT