



OPAL



WATER QUALITY



WATER QUALITY

VALIDATED OVER THE YEARS
IN A LARGE FIELD OF
APPLICATION

Solvay

Rhodia

Ineos

FPG Taiwan

Ciba Geigy

Sanofi

Aventis

PPG

Arkema

Asahi Glass

De Nora

Total

Samsung

Coca Cola

Lafarge

Mitsubishi

Petro Bras

Alstom...

APPLICATIONS

Drinking water

Quality control at all stages :
treatment, storage, distribution

Surface water

Study and design of surface
water monitoring stations

Waste water

Monitoring of industrial
or urban waste water

Process water

Quality control of
process water

Oil & Water

Oil in Water Detection &
Water in Oil storage tanks

PARAMETERS

TOTAL CHLORINE
FREE CHLORINE
MORPHOLINE
PHOSPHATES
AMMONIA
HYDRAZINE
COLOUR
PHENOLS
SILICA...

CHROMIUM VI
MANGANESE
ALUMINIUM
COPPER
NICKEL
IRON
LEAD
ZINC...

HARDNESS
THT
TA
TAC ...

CHLORIDES
CYANIDES
FLUORIDES
SULFIDES
ARSENIC
SULFATES ...

CERTIFICATIONS

PROCESS CONTROL

Manufacturing industries

Drinking water

ONLINE water quality monitoring solutions for upstream and downstream purification processes.

Ensure the optimal quality all along the manufacturing and distribution network.

Process water

Integrated solutions for real-time water quality measurements suited to industrial processes.

ENVIRONMENT

Environmental protection
and pollution control.

Surface water

REALTIME Monitoring stations or mobile laboratories, for the protection of surface water, spring water, rivers and groundwater.

Sea water

Prevention of sea water by hydrocarbon wastes: Oil tankers, Oil Rigs, Refinery wastes.



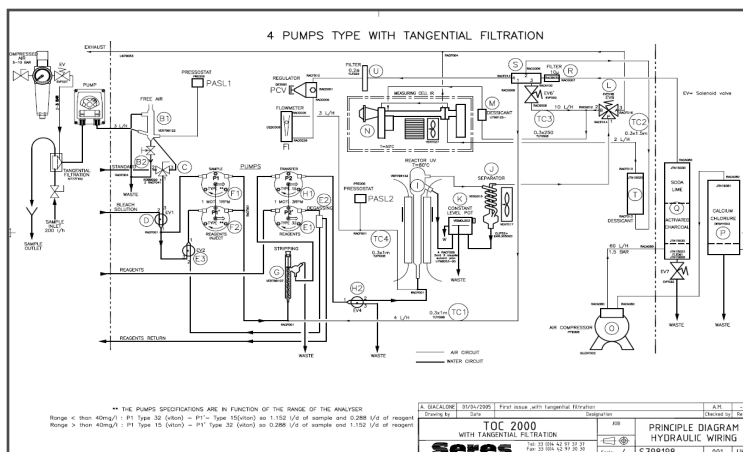
WATER QUALITY



AquaGas Scope of supply

From a stand alone analyser to a complete monitoring station (stationary or mobile) , AquaGas supplies turnkey systems fully integrated meeting the Australian standards and matching the exact project requirements.

Our system are delivered with a full set of documentation and a minimum warranty of one year which includes 24h/7 days email and phone support.



OPAL ONLINE WATER QUALITY ANALYSER

OIL POLLUTION ALARM

Description

The **OPAL** is the last generation of detector designed for online and Real-time suspended Hydrocarbons monitoring. It uses Infra Red scattering to enables early detection of oil in any type of water.

Reagent's free, the **OPAL** represents the most cost effective solution and matches a large range of application requirements.

Applications

Process water condensates, thermal exchangers, industrial water, urban waste water and industrial effluents.

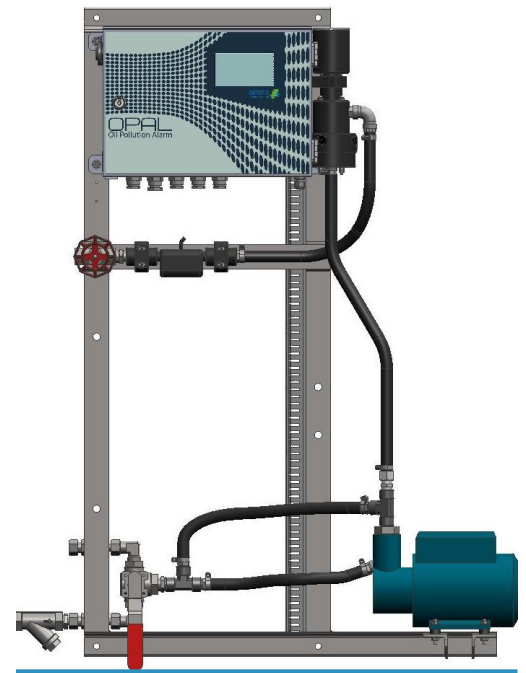
Oil & Gas

ONSHORE refineries, oil drilling plants, energy, petrochemical and more

OFFSHORE Oil platforms and ships



Early Detection of OIL traces in water



Key FEATURES

- ↳ COMPACT SYSTEM, FAST AND EFFICIENT
- ↳ PROGRAMMABLE MEASURING RANGE FROM 0-10 TO 0-500PPM, OTHER ON REQUEST
- ↳ IR LIGHT SCATTERING, FOR AUTOMATIC AND ONLINE MONITORING
- ↳ EASY AND COST EFFICIENT OPERATION
- ↳ INTUITIVE TOUCHSCREEN INTERFACE
- ↳ NO REAGENT REQUIRED
- ↳ EXTENDED SELECTION OF INPUTS AND OUTPUTS
- ↳ LARGE RANGE OF OPTIONS
- ↳ AUTOMATIC MEASURING CELL CLEANING
- ↳ ENGINEERED SPECIFIC VERSIONS

OIL in Water detection



Fully automated online analyser

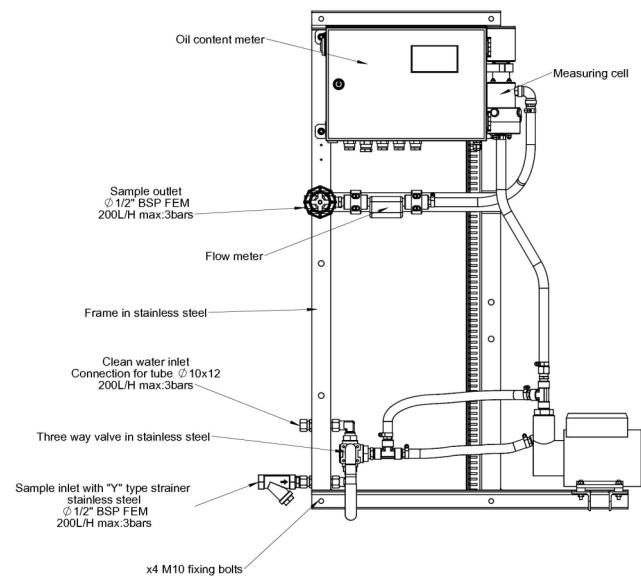


Graphic interface - display of concentration & flow, easy setting, functional tests through touch screen

ATEX version available

Communication - RS232/485, JBus, 4-20mA, dry contacts, USB port

Options : cooler, hydrocyclon, multistream, engineered solutions, ...



OPAL Specifications

CONSTRUCTION & ENVIRONMENT

Dimensions	Chassis version 800x1055x250 mm (W x H x D)
Weight & Material	Detector enclosure 460 x 689 x 226 mm
	30 kg approx. incl. chassis - 45kg with cooler
	Chassis in SS304 / detector high impact PS / Measuring

Environment	Installation in safe and sheltered area, away from corrosive atmosphere - IP65
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& Protection

Ambient T°	5 to 55°C
Relative humidity	10 to 90%

ELECTRICAL UTILITIES

Power supply	110 - 240 VAC 50 / 60 Hz
Consumption	Typical 150 VA - Maximum 300 VA

ANALYSIS

Parameters	Refer to list on reverse page / Consult
Range	Programmable 0-10 up to 0-500ppm
Method	Continuous, on line measurement
	Infra Red scattering beam / IR diffusion
Reagents	Depend on parameter and method
Number of streams	1 as standard (optional multistream set up)
Measured parameter	Suspended Hydrocarbons - OIL
Response time	Instantaneous T90% < 3sec
Accuracy	± 1 to 2% end of range
Repeatability	± 1 to 2% end of range

CONNECTIVITY, ALARMS & COMMUNICATION

User interface	Colour LCD display, 4.3'', touch-screen
Data retrieval	Transfer via USB port (sealed USB connection)
Output signal	7 dry contact output relays / 4 outputs 24VDC 1 x 4 - 20 mA, galvanic insulation
Input signal	3 digital inputs
Alarms	Thresholds per stream (HI-LO), sample & analyser failure

SAMPLING

Preparation	Filtration if needed
Interferent	Turbidity (optional auto compensation)
Sample inlet	Flow : 200l/h
	Pressure : 0.5 to 3 bar maximum / Free outlet

	Temperature : 5 to 50°C
Hydraulic connections	Inlet 1/2" BSP F

	Outlet 1/2" BSP F
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Options	Cooler, ATEX version, Hydrocyclon, multistream...
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OPERATION

Measuring cell	Automatically cleaned with recurrently actuated wiper jack
Zero	Performed on clean fresh water 200l/h at 3 bar max. for 10 min once a month
calibration	Quick calibration with integral optical device

PROCESS CONTROL

Manufacturing industries

Drinking water

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ENVIRONMENT

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Surface water

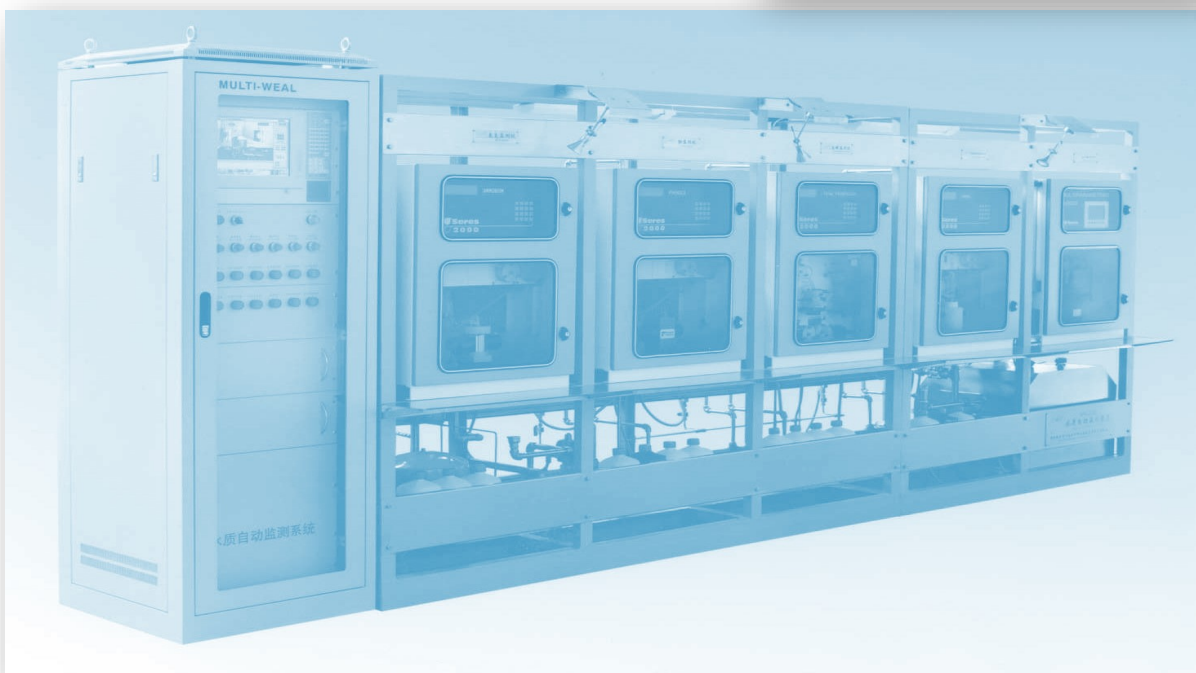
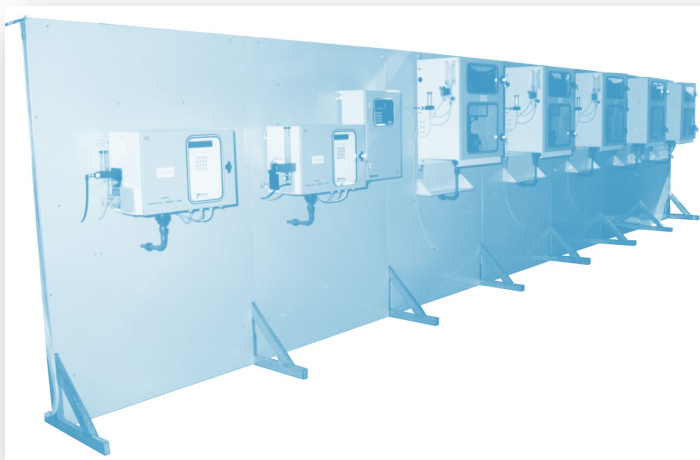
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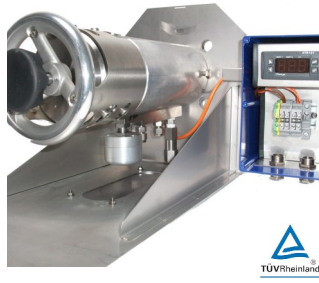
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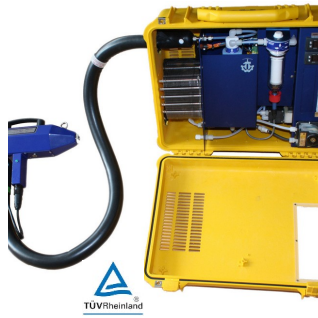


AquaGas Products and Services



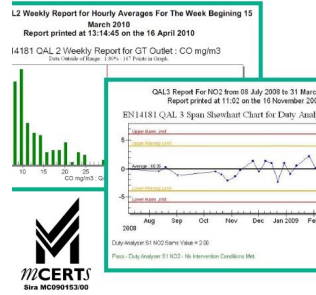
CEMS

System INTEGRATION
& Innovative
SAMPLING solutions



STACK TESTING

Portable equipment
for short term
measurement



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**.

SERES Environnement analysers

SERES Environnement (FRANCE) is one of the major actors in the field of online analysis dedicated to **Water Quality Monitoring** in the industry and the environment. Outstanding experience, attentiveness, innovative and effective solutions are the strengths of SERES while meeting everyday challenges.

The ideal partner for Australian water quality monitoring.

Contact Us

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

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INTEGRATED SOLUTIONS TO MONITOR OUR ENVIRONMENT