



CRISTALLITE



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

Environment Organizations, Water production & treatment, Oil & Gas, Petrochemical industry, Refineries, Power stations, Paper mills, Metal, food and other industries, Oil rigs, Tankers, Etc ...

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.



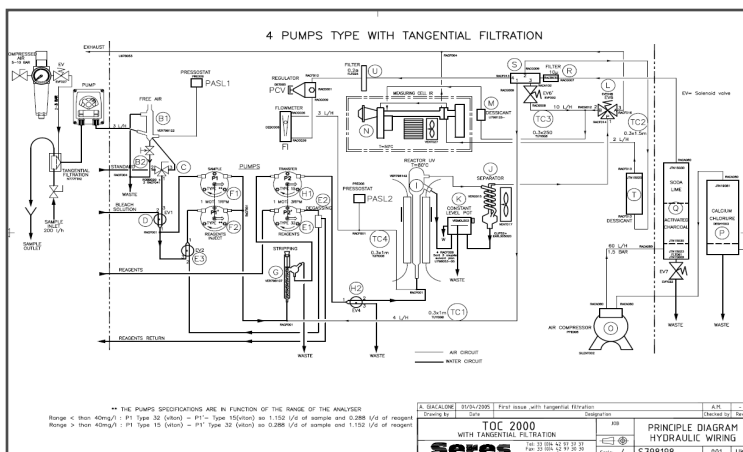
WATER QUALITY



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.



CRISTALLITE ONLINE WATER QUALITY ANALYSER

SINGLE PARAMETER - SINGLE STREAM

Description

The **CRISTALLITE** analyser is designed to fulfil your basic automatic and continuous monitoring needs (**single parameter sampled from one stream**). Thanks to its concept using a combination of analytical methods (**Colorimetry, Titrimetry and Potentiometry or selected absorption**) the **CRISTALLITE** allows efficient and accurate water quality strict monitoring at a reduced cost.

Applications

Control of industrial process Boiler cooling water / Process water

Drinking and Surface water Alert stations and environmental monitoring

Urban & industrial effluents

Water treatment

Oil & Gas refineries, oil exploration



Cost effective
MONITORING
solution



PARAMETERS

↳ COLORIMETRY:

- AMMONIUM, FREE AND/OR TOTAL CHLORINE, CHROMIUM IV
- TOTAL IRON, HYDRAZINE, PHENOL
- PHOSPHATES (ORTHOPHOSPHATES), SILICA, HARDNESS

↳ ABSORPTION

- COLOUR

↳ TITRIMETRY

- TH, TAC, TA

↳ POTENTIOMETRY

- AMMONIUM, CHLORIDES, CYANIDES, FLUORIDES AND MORE

↳ SPECIFIC METHOD CAN BE ADAPTED FOR PROCESS AND BRINES MONITORING:

- PERACETIC ACID, VFA, CA MG, NH₄ AND MORE

Fully automated online analyser

CRISTALLITE BENEFITS

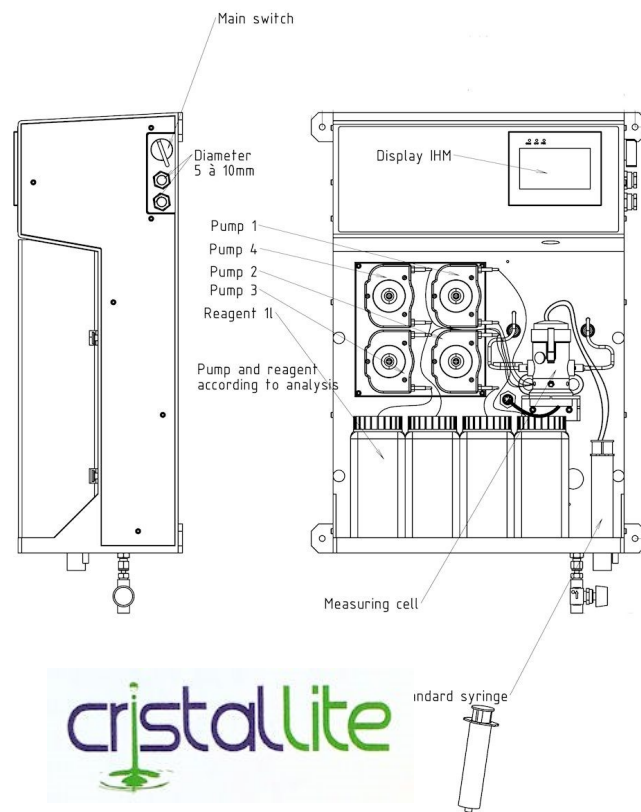
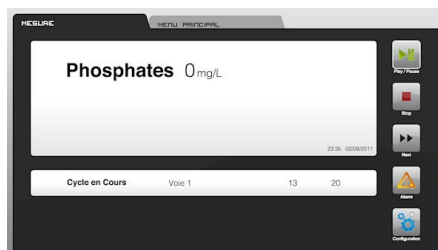
AUTOMATIC ONLINE
MONITORING

LIMITED MAINTENANCE

LOW OPERATING COSTS

INTUITIVE INTERFACE

MODULAR AND COMPACT



CRISTALLITE Specifications

CONSTRUCTION & ENVIRONMENT

Dimensions	Wall cabinet: 460 x 606 x 226 mm (W x H x D) Overall dimensions (with sample inlet valve): 460 x 689 x 226 mm
Weight	7 kg approx.
Material	ABS and Polycarbonate
Environment	Installation in safe and sheltered area, away from corrosive atmosphere
& Protection	
Ambient T°	5 to 40°C (depend method)
Relative humidity	10 to 80%

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	Depend on parameter / Consult
Method	Continuous, on line measurement Colorimetry, titrimetry, potentiometry or absorption Selection based on parameter and/or range
Reagents	Depend on parameter and method
Number of streams	1
Number of parameter	1
Cycle duration	15 min on average
Accuracy	± 1 to 3% end of range (colo, titri, pot.)
Repeatability	± 1 to 3% end of range (colo, titri), ± 3 to 5% (pot.)

CONNECTIVITY, ALARMS & COMMUNICATION

User interface	Colour LCD display, 4.3", touch-screen Windows interface
Data retrieval	Transfer via USB port
Output signal	4 - 20 mA, galvanic insulation 2 x relays - dry contact
Alarms	Thresholds per stream (HI-LO), sample & analyser failure

SAMPLING

Preparation	Filtration if needed / Dilution, depending on application
Sample inlet	Flow : min 30 l/h - optimum 46 l/h (4 l/h with water saver) Pressure : 0.5 to 2 bar maximum / Free outlet

Temperature : 5 to 45°C

Hydraulic
Sample : Inlet 1/4" BSP F

connections
Outlet soft tubing 25x28mm

Cell volume
25 ml for potentiometry, otherwise 8 to 10 ml

OPERATION

Zero	Automatic at end of each measurement cycle
calibration	Manual with Syringe (Incl.) at each replacement of reagent

PROCESS CONTROL

Manufacturing industries

Drinking water

ONLINE water quality monitoring solutions for up-stream 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

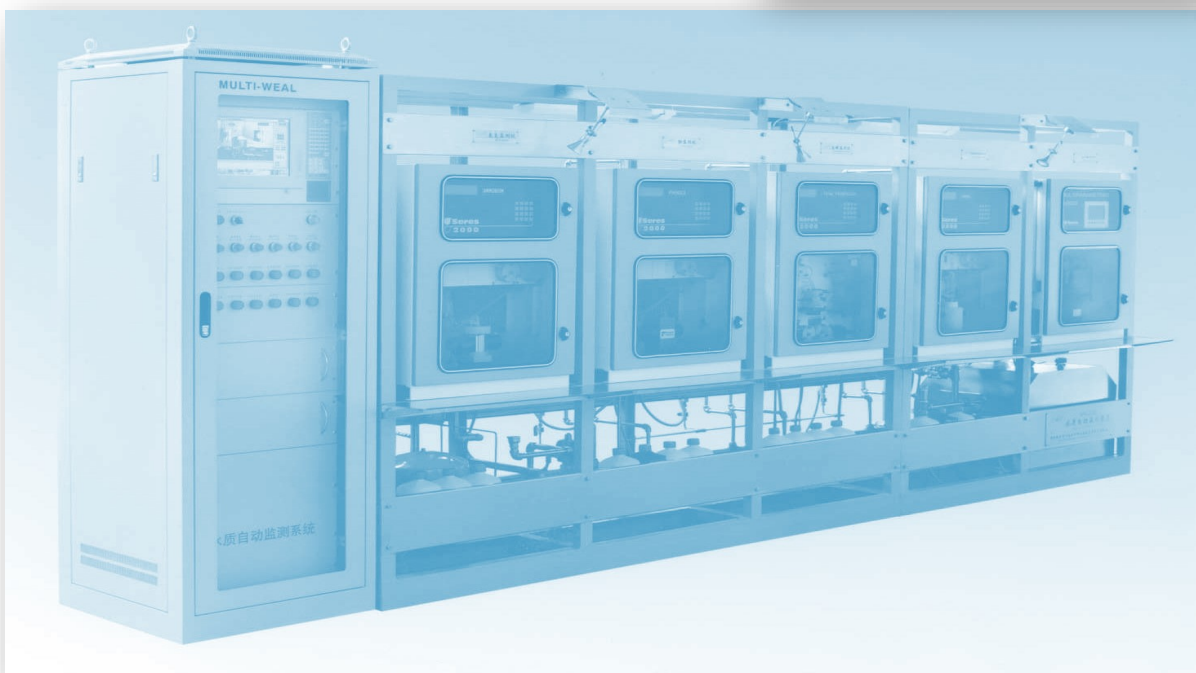
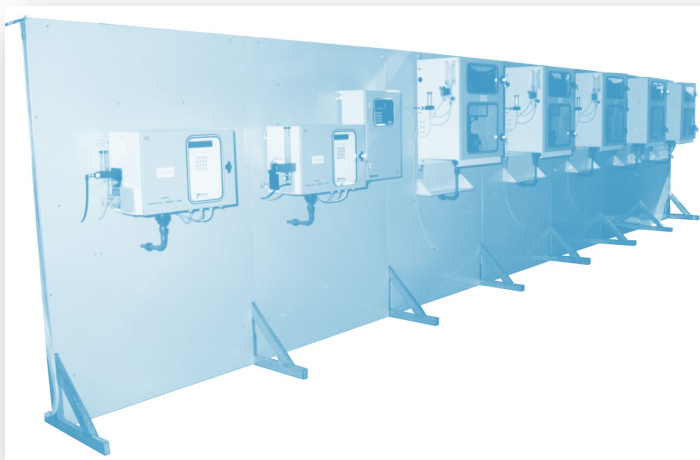
REALTIME Monitoring stations or mobile laboratories, for the protection of surface water, spring water, rivers and groundwater.

Sea water

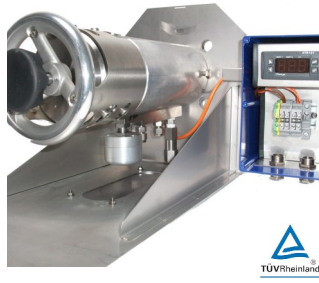
Prevention of sea water by hydrocarbon wastes: Oil tankers, Oil Rigs, Refinery wastes.



WATER QUALITY

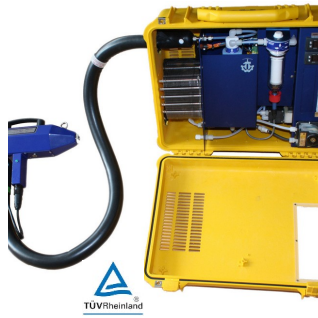


AquaGas Products and Services



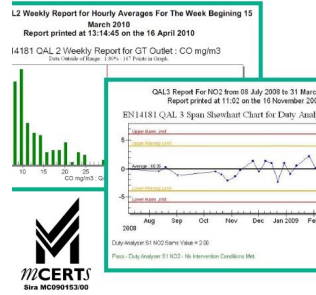
CEMS

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



*"For the Environnement,
excellence comes as a standard"*

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

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



INTEGRATED SOLUTIONS TO MONITOR OUR ENVIRONMENT