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POLLUTION MEASUREMENT

ONYX

WATER QUALITY

WATER QUALITY

VALIDATED OVER THE YEARS IN A LARGE FIELD OF APPLICATION

- Solvay
- Rhodia
- Ineos
- FPG Taïwan
- 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

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POLLUTION MEASUREMENT

QUALITY MANAGEMENT SYSTEM
ISO 9001:2008
CERTIFIED

Ex
ATEX

IMO
INTERNATIONAL MARITIME ORGANIZATION

BUREAU VERITAS
1828
L C I E

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POLLUTION MEASUREMENT

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

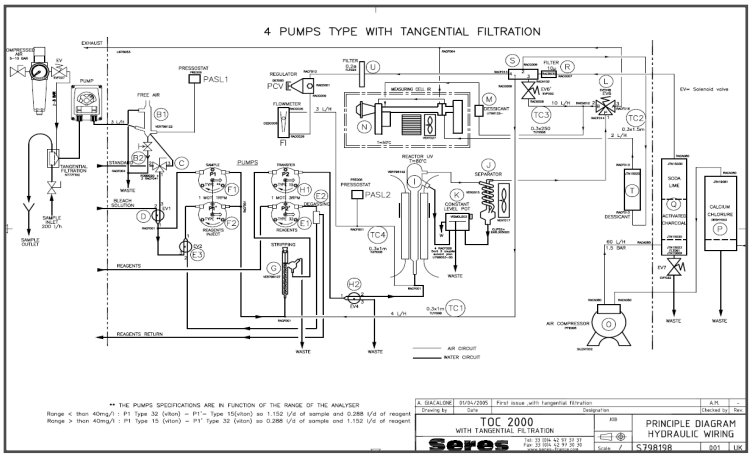
REFERENCES

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

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.



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POLLUTION MEASUREMENT

WATER QUALITY

ONYX ONLINE WATER QUALITY ANALYSER

SINGLE PARAMETER - SINGLE STREAM

Description

The ONYX 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 ONYX allows efficient and accurate water quality strict monitoring.

From TRACES to HIGH CONCENTRATIONS

Applications

Control of industrial process Chlorine production, Soda production, Electro-chlorination, Residual concentration of active chlorine, NaOH/Na_2CO_3 in a Sodium, Hypochlorite / Soda solution, boiler cooling water

Drinking and Surface water Alert stations and environmental monitoring

Urban & industrial effluents

Water treatment

Oil & Gas refineries, oil exploration

SERES environnement

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

RANGES AND OTHER PARAMETERS: PLEASE CONSULT

Fully automated online analyser

ONYX BENEFITS

AUTOMATIC ONLINE MONITORING

MULTIFUNCTIONAL

EASILY CONFIGURABLE

INTUITIVE INTERFACE

MODULAR AND COMPACT

User interface smart & intuitive via Touchscreen

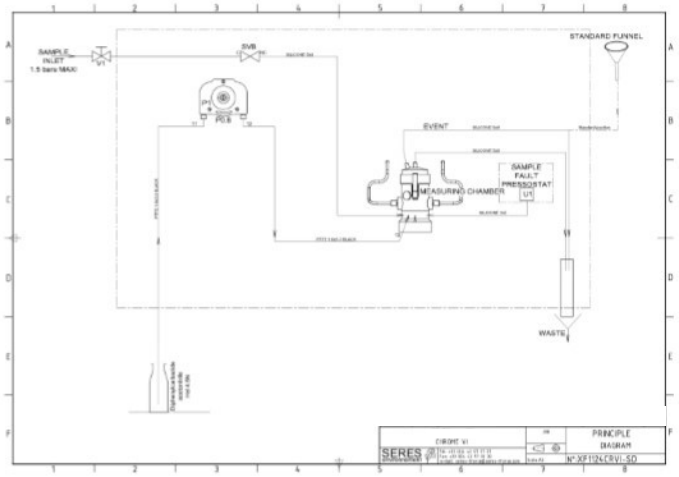
Measurement Increased accuracy and response time

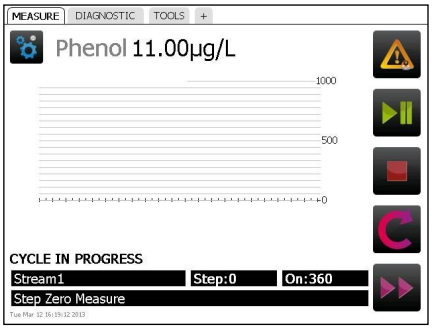
JBus/ModBus module retrieval data / steering

Supervision data storage

Low Operating cost Minimum reagents' consumption

Integration Compact ABS case





ONYX Specifications

CONSTRUCTION & ENVIRONMENT

Dimensions	Wall cabinet ABS: 460 x 606 x 226 mm (W x H x D)
Weight & Material	20 kg approx. - ABS
Environment & Protection	Installation in safe and sheltered area, away from corrosive atmosphere. IP55.
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	1
Cycle duration	15 min on average
Accuracy	± 1 to 2% end of range (colo, titri, pot.)
Repeatability	± 1 to 2% end of range (colo, titri), ± 3 to 5% (pot.)

CONNECTIVITY, ALARMS & COMMUNICATION

User interface	Colour LCD display, 5.7'', 160 x 230 mm, touch-screen Windows interface
Data storage and retrieval	Data storage in analyser memory Transfer via USB port (historic)
Input / Output & Communication	4 - 20 mA, dry contacts—JBus/Modbus RS232 On option : support converter RS485
Alarms	Thresholds per stream (HI-LO), sample & analyser failure
Remote control	JBus/ModBus protocol or dry contact: end of cycle stop,

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 : 2 bar maximum / Free outlet Temperature : 5 to 45°C
Hydraulic connections	Sample : Inlet 1/4''BSP F / Outlet soft tubing D INT 9 Waste : soft tubing D INT 12
Cell volume	25 ml for potentiometry, otherwise 8 to 10 ml

OPERATION

Zero	Automatic at end of each measurement cycle
Semi-automatic calibration	Required upon renewal of reagents Otherwise : depends on method

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POLLUTION MEASUREMENT

50 years of EXPERTISE in ONLINE MONITORING

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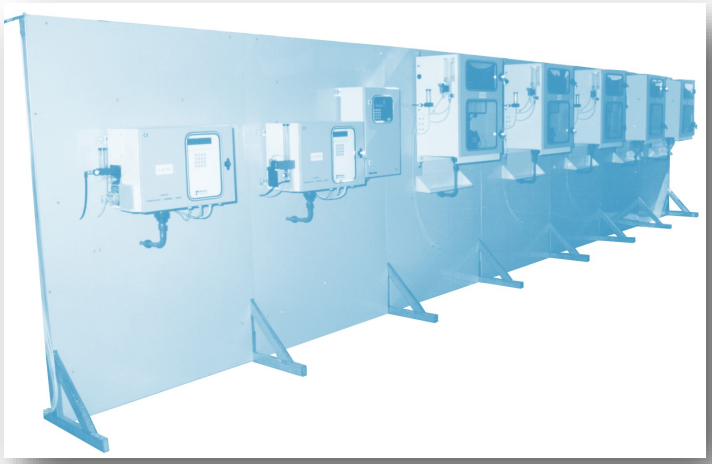


SERES environnement

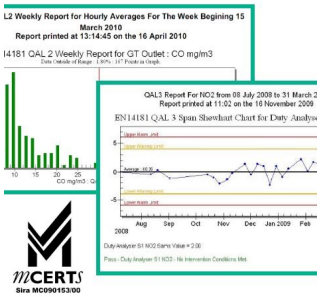
AquaGas Products and Services

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

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POLLUTION MEASUREMENT

INTEGRATED SOLUTIONS TO MONITOR OUR ENVIRONMENT