INDUSTRIAL AND SURFACE WATER MONITORING



CRISTALLITE Online Analyser

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





SERES environnement

Key functions for enhanced monitoring

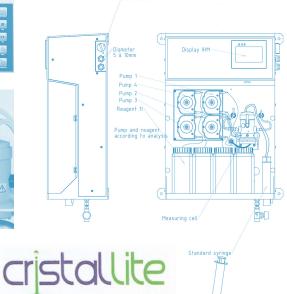
Colorimetry	Titrimetry
• Ammonium, Free and/or Total Chlorine, Chromium IV	• TH, TAC, TA
• Total Iron, Hydrazine, Phenol	POTENTIOMETRY
• Phosphates (Orthophosphates), Silica, Hardness	Ammonium, Chlorides, Cyanides, Fluorides and more
ABSORPTION	SPECIFIC METHOD CAN BE ADAPTED FOR PROCESS AND BRINES MONITORING
• COLOUR	• Peracetic acid, VFA, Ca Mg, NH4 and more



Fully automated online analyser

- STANDALONE ANALYSER
- ACCURATE ANALYSIS
- ONLINE MONITORING
- LIMITED MAINTENANCE
- LOW OPERATING COSTS
- INTUITIVE INTERFACE
- MODULAR & COMPACT





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Technical Specifications

CONSTRUCTION & ENVIRONMENT		CONNECTIVITY, ALARMS & COMMUNICATION	
Dimensions	Wall cabinet: 460 \times 606 x 226 mm (W x H x D)	User interface	Colour LCD display, 4.3'', touch-screen
	Overall dimensions (with sample inlet valve):		
	460 x 689 x 226 mm		Windows interface
Weight	7 kg approx.	Data retrieval	Transfer via USB port
•			
Material	ABS and Polycarbonate	Output signal	4 - 20 mA, galvanic insulation
Environment	Installation in safe and sheltered area, away from	e e i p e i e girai	
& Protection	corrosive atmosphere		2 x relays - dry contact
Ambient T°	5 to 40°C (depend method)	Alarms	Thresholds per stream (HI-LO), sample & analyser failure
Relative humidity	10 to 80%	SAMPLING	
ELECTRICAL UTILITI	ES	Drenswellen	Filtration if needed / Dilution, depending on application
Power supply	110 - 240 VAC 50 / 60 Hz	Preparation	
Consumption	Typical 150 VA - Maximum 300 VA	Sample inlet	Flow : min 30 l/h - optimum 46 l/h (4 l/h with water saver)
ANALYSIS			Pressure : 0.5 to 2 bar maximum / Free outlet
Parameters	Refer to list on reverse page / Consult		Temperature : 5 to 45°C
Range	Depend on parameter / Consult	1.54	
Method	Continuous, on line measurement	Hydraulic	Sample : Inlet 1/4''BSP F
	Colorimetry, titrimetry, potentiometry or absorption	connections	Outlet soft tubing 25x28mm
	Selection based on parameter and/or range	Cell volume	25 ml for potentiometry, otherwise 8 to 10 ml
Reagents	Depend on parameter and method	OPERATION	
Number of streams	1 2		
Number of	1	Zero	Automatic at end of each measurement cycle
parameter		calibration	Manual with Syringe (Incl.) at each replacement of
Cycle duration	15 min on average		reagent
Accuracy	± 1 to 3% end of range (colo, titri, pot.)		



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.

<u>ENVIRONMENT</u>

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.



References

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





AquaGas Pty Ltd is supporting the global industrial community with high performance Environmental & Process Monitoring Systems (Continuous Emissions Monitoring Systems, Air Quality Monitoring Systems, Online process analysers, Water Quality Monitoring Systems) specifically designed and built to meet your application requirements.

With extensive expertise and diverse technical skills acquired around the globe, AquaGas Pty Ltd designs, installs, and supports innovative technical solutions, which respond to the requirements of environmental regulations in terms of pollution monitoring and environmental impact assessment. AquaGas Pty Ltd Systems and Services are available in **Australia, New-Zealand and New Caledonia**.





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

CERTIFICATIONS

