INDUSTRIAL AND SURFACE WATER MONITORING



OPAL 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 functions for enhanced monitoring

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

SEXTENDED SELECTION OF INPUTS AND OUTPUTS LARGE RANGE OF OPTIONS

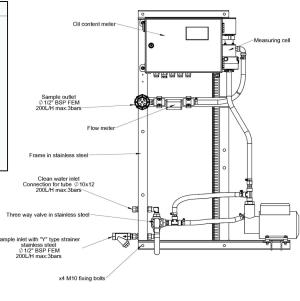
SAUTOMATIC MEASURING CELL CLEANING SENGINEERED SPECIFIC VERSIONS

INTERNATIONAL MARITIME ORGANIZATION

Fully automatic online analyser



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



Technical Specifications

CONSTRUCTION 8	ENVIRONMENT	CONNECTIVITY,	ALARMS & COMMUNICATION
Dimensions Weight & Material	Chassis version 800x1055x250 mm (W x H x D)	User interface	Colour LCD display, 4.3'', touch-screen
	Detector enclosure 460 x 689 x 226 mm	Data retrieval	Transfer via USB port (sealed USB connection)
	30 kg approx, incl. chassis - 45kg with cooler	Output signal	7 dry contact output relays / 4 outputs 24VDC 1 x 4 - 20 mA, galvanic insulation
	Chassis in SS304 / detector high impact PS / Measuring		1 x serial output RS232 / 1 x serial output RS 485 (JBus)
	cell in Delrin / hydraulic - Flexible thermoplastic piping	Input signal	3 digital inputs
Environment	Installation in safe and sheltered area, away from corrosive atmosphere - IP65	Alarms	Thresholds per stream (HI-LO), sample & analyser failure
& Protection		SAMPLING	
Ambient T°	5 to 55°C	Preparation	Filtration if needed
Relative humidity	10 to 90%	Interferent	Turbidity (optional auto compensation)
LECTRICAL UTILIT	IES NO VIEW NO TO THE PARTY OF	Sample inlet	Flow: 2001/h
ower supply	110 - 240 VAC 50 / 60 Hz	sample inlet	110W . 2001/11
Consumption	Typical 150 VA - Maximum 300 VA		Pressure: 0.5 to 3 bar maximum / Free outlet
ANALYSIS			Temperature: 5 to 50°C
Parameters	Refer to list on reverse page / Consult	Hydraulic	Inlet 1/2''BSP F
ange	Programmable 0-10 up to 0-500ppm	connections	THEFT/2 DST T
Method	Continuous, on line measurement		Outlet 1/2''BSP F
		Options	Cooler, ATEX version, Hydrocyclon, multistream
	Infra Red scattering beam / IR diffusion	OPERATION	
eagents	Depend on parameter and method	Measuring cell	Automatically cleaned with recurrently actuated wiper
umber of streams	1 as standard (optional multistream set up)	W. Start	jack
Neasured arameter	Suspended Hydrocarbons - OIL	Zero	Performed on clean fresh water 2001/h at 3 bar max. for 10 min once a month
	Instantaneous T90% < 3sec	calibration	Quick calibration with integral optical device
esponse time			
ccuracy	± 1 to 2% end of range		

Repeatability

± 1 to 2% end of range



PROCESS CONTROL

Manufacturina 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.



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. ...

































Environmental Compliance & Online Process Analysis



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...



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

HARDNESS

COPPER NICKEL

ALUMINIUM

IRON

LEAD

ZINC...

CHLORIDES
CYANIDES
FLUORIDES
SULFIDES
ARSENIC
SULFATES ...

CERTIFICATIONS







