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

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**Key functions for enhanced monitoring**

- Compact system, fast and efficient
- IR light scattering, for automatic and online monitoring
- Intuitive touchscreen interface
- Extended selection of inputs and outputs
- Automatic measuring cell cleaning
- Programmable measuring range from 0-10 to 0-500ppm, other on request
- Easy and cost efficient operation
- No reagent required
- Large range of options
- Engineered specific versions
Graphic interface display of concentration & flow, easy setting, functional tests through touch screen.

Technical Specifications

CONSTRUCTION & ENVIRONMENT

Dimensions
Chassis version 800x1055x250 mm (W x H x D)
Detector enclosure 460 x 689 x 226 mm

Weight & Material
30 kg approx. incl. chassis - 45kg with cooler
Chassis in SS304 / detector high impact PS / Measuring cell in Delrin / hydraulic - Flexible thermoplastic piping

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

& 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
Reagents Depend on parameter and method
Number of streams 1 as standard (optional multistream set up)
Measured parameter Suspended Hydrocarbons - Oil
Response time Instantaneous 190% < 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
1 x serial output RS232 / 1 x serial output RS 485 (JBus)
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 : 200 l/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
Options Cooler, ATEX version, Hydrocyclon, multistream...

OPERATION

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

HARDNESS
THT
TA
TAC ...

CHLORIDES
CYANIDES
FLUORIDES
SULFIDES
ARSENIC
SULFATES ...

CERTIFICATIONS