



Visible Oil on Water Detector

WaterWatch2920

PRODUCT DATASHEET

APPLICATIONS

Airport Run-off
Power Generation
Water Treatment Intake Protection
Metal Processing Plant Effluent
Inland Waterways

BENEFITS

Early Warning of Pollution Incident
Protection for Membrane Plants
Automatic Intake Shutdown
Reduction of Environmental Damage

PRINCIPAL OF OPERATION

Infrared Surface Reflectance
Non-Contact Sensor
Detects Monomolecular Oil Sheen

FEATURES

Floating Sensor
Local Display
Analogue and Alarm Output

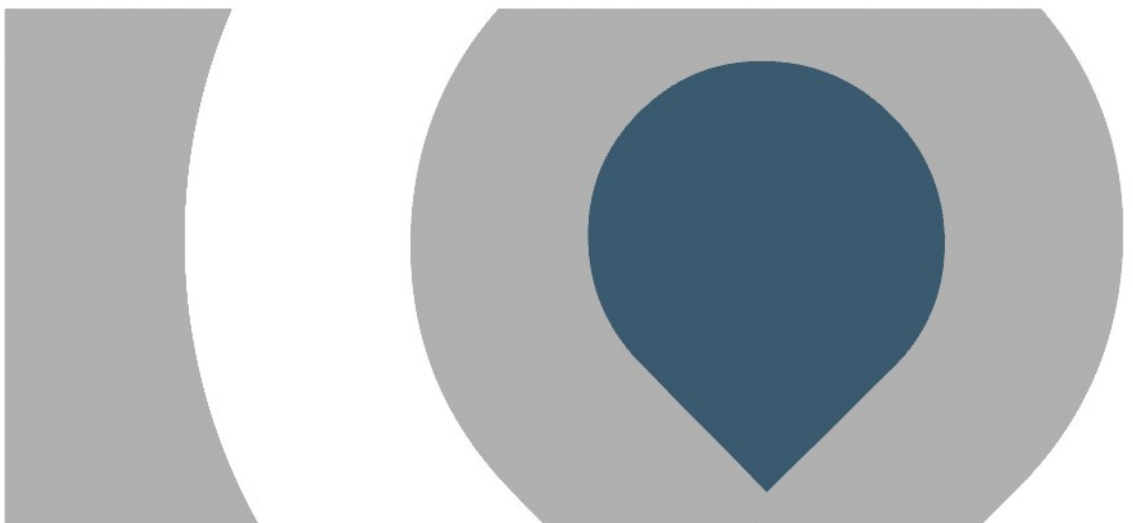


Contamination of water courses by visible oil is a problem that requires fast, reliable detection to prevent damage to either the local environment or a water treatment process. If oil is allowed to enter a river then wildlife can be harmed, if the oil then enters a drinking water plant damage can be caused to the processing system or more critically the quality of the drinking water can be affected.

Early warning of a problem allows remedial action to be taken either by automatically shutting down the intake to a process or by raising an alarm calling for manual intervention. The monitor can also be connected to pollution prevention equipment such as oil dispersants or oil adsorbing mops, booms, and skimmers.

The sensors can be deployed in any application where the surface of the water is relatively calm, the system will react rapidly to both partial and complete films of oil on the water surface. The measuring system is highly stable and only needs occasional validation to ensure reliable operation.

The unsinkable floating sensor has a dual hull designed to channel any oil passing through the centre of the float so that it is presented to the detector. The non-contact infrared sensor emits light that is reflected from the water surface, any oil that is present increases the amount of light reflected and this is then converted into the desired output signals. The float is supplied with two fixing cables and a weight to keep it stationary and correctly orientated. In addition a range of mounting accessories can be offered to suit the individual requirements of each application.



Call us on 01726 879800 www.partech.co.uk

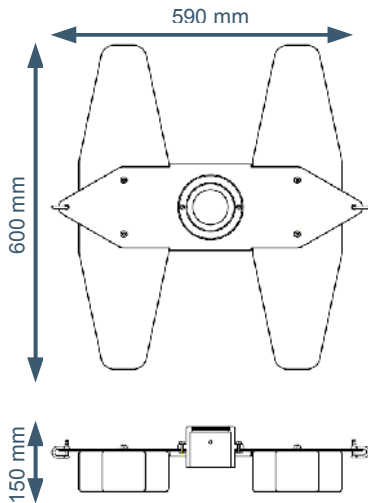
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Physical - Monitor

Weight 2.2 kg
Dimensions (h x w x l) 222 x 214 x 92 mm
Enclosure Rating IP65
Enclosure Material ABS
Cable Entries 5 x M13 and 1 x M20
Cable Size Max Conductor Cross Section 4 mm²

Physical - Float

Weight 2.2 kg
Dimensions (h x w x l) 150 x 485 x 600 mm
Enclosure Rating IP68
Enclosure Material Fibre Glass Coated Float with Black Acetal Transmitter Housing

Environmental Data

Operating Temperature 0 to 60°C
Storage Temperature -20 to 60°C
Location Indoor or Outdoor

Power Supply

Voltage 115/230 VAC +10/-15% Field Selectable, 12/24 VDC option
Power Consumption 11W

Analogue Output

Number 1
Type 4-20 mA Isolated
Max Load Resistance 750 ohms

Relay Outputs and Set Points

Number 2
Contacts SPCO
Rating 5A @ 230 VAC, 5A @ 125 VDC
Type High, Low or Fault
Adjustment 0-100% Sensor Range

Measurement Details

Response Time 0.2 to 120 seconds

Serial Communications

RS232 Yes

User Interface

Display 4 Digit Red LED display for process variable
2 Line LCD display for Configuration and Operation via 5 Button Membrane Keypad
% Probability of Oil Presence

Setup
Units of Measurement

Mounting

Monitor Surface
Transducer Float Mounted with 2 stainless steel restraining cables

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The company reserves the right to alter the specification without prior notice. E&OE

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