



MS1200-S | OIL IN WATER ANALYSER | 1 - 3000 PPB

The MS1200-S is part of the next generation of Multisensor Systems' on-line **Oil in Water and Pollution Analysers** and is designed to protect drinking water treatment plants from pollution events at the raw water intake. These events can result in expensive filter replacement and clean-up operations and may also affect the quality of drinking water with regulated pollutants such as BTEX, trichloroethylene, tetrachloroethylene, vinyl chloride reaching the customers.

APPLICATIONS

- Contamination alerts at raw water intakes
- Monitoring of drain and stormwater systems
- Detection of fuel pollution in surface water
- Measurement of breakthrough in carbon beds
- Reverse osmosis membrane protection
- Protection of desalination plants

FEATURES AND BENEFITS

- Accurate to low ppb concentrations
- Relay control of users' pumps and valves
- Detects VOCs, BTEX, fuel oils and PAH
- Continuous measurement
- Powerful diagnostics
- Versatile communication protocols

- ✓ Accurate, continuous monitoring
- ✓ Long sensor lifetime: 5+ years*
- ✓ Low operating and maintenance costs
- ✓ Ideal for the protection of water intakes
- ✓ Low maintenance, no sensor cleaning
- ✓ Insensitive to high turbidity
- ✓ High sensitivity, ideal for boreholes



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TECHNICAL SPECIFICATION

PARAMETER	OPERATIONAL REQUIREMENTS		NOTES
	MINIMUM	MAXIMUM	
DETECTION RANGE	1 ppb	3000 ppb	Total VOCs
4-20 mA RANGE (DEFAULT)	0 ppb	1000 ppb	Configurable on commissioning
REPEATABILITY	-2%	+2%	+/-10% from 30 to 3000 ppb, calibrated against NIST traceable toluene gas standards under Standard Laboratory Conditions; accuracy can be further improved at concentration of interest, using bespoke calibration on request.
ACCURACY	-10%	+10%	
MEASUREMENT FREQUENCY	Continuous		
AMBIENT TEMPERATURE	0 °C	50 °C	Climate control might be needed depending on process and ambient conditions
WATER TEMPERATURE	1 °C	50 °C	
ANALOGUE INPUT	4 mA	20 mA	Scalable to range required, max load 750 Ω, loop powered or instrument powered
ANALOGUE OUTPUT	4 mA	20 mA	
ANALOGUE OUTPUT ISOLATION	5 kVAC, 400 VDC		
RELAY CURRENT		5 A	Max. 250 VAC or 30 VDC; 3x: Alarm 1, 2 and Fault Relays with NO and NC contacts
INTERFACE	Touchscreen		With advanced reporting capabilities
COMMUNICATION PROTOCOLS	Modbus (Optional)		Profibus / HART / Foundation Fieldbus on request
DATA STORAGE	µSD Card / Windows PC		
INSTRUMENT CASE	IP65		Powder coated stainless steel
SYSTEM WEIGHT	30 kg		
SAMPLING TANK	316 Stainless Steel		
FLOW LIMIT SWITCH			Option available on request
WATER FLOW RATE	2 l/min		
SYSTEM DIMENSIONS	450 x 200 x 680 mm		
SUPPLY VOLTAGE	90 VAC	240 VAC	50 Hz or 60 Hz
POWER CONSUMPTION		25 W	

*Under standard operating conditions



CONSUMABLES

6 Months: Filter and restrictor

SERVICE

Service is necessary every 6 months to keep the instrument operating in optimal conditions. Air Pump replaced every 18-36 months as required. Service should be carried out by a trained technician who has undergone the standard Multisensor Systems training course.



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Multisensor Systems Limited reserves the right to revise any specifications and data contained within this document without notice.

Multisensor Systems is a developer and supplier of Water and Gas Analysers specialising in oil in water and hydrocarbon analysers, oil in water detectors, VOC monitors and THM analysers based in the United Kingdom.

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CHANGELOG

MSS DOCUMENT CHANGE RECORD

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