

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

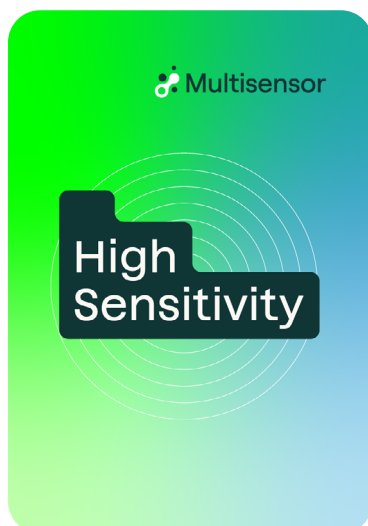


- ✓ Accurate, continuous monitoring
- ✓ Long sensor lifetime: 5+ years*
- ✓ Low operating and maintenance costs
- ✓ Ideal for the protection of water intakes
- ✓ Low maintenance, no sensor cleaning
- ✓ Insensitive to high turbidity
- ✓ High sensitivity, ideal for boreholes

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	μ SD 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.



HEAD OFFICE (UNITED KINGDOM)

Multisensor Systems Ltd.

Alexandra Court
Carrs Road
Cheadle
SK8 2JY
United Kingdom
T: +44 (0)161 491 5600
E: info@multisensor.co.uk

NEW ZEALAND DISTRIBUTOR

Alphatech System

630A Great South Road
Greenlane
Auckland 1051
New Zealand

T: +64 (0) 9 580 1959
E: info@multisensorsystems.co.nz



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.

The contents of this publication are provided to you "as is" without warranty of any kind, and are subject to change without notice. Multisensor Systems does not assume any responsibility or liability for any damage, whether direct or indirect, relating to the use of this publication.

Multisensor Systems Ltd., Alexandra Court, Carrs Road, Cheadle, SK8 2JY, United Kingdom

©2010-Present, Multisensor Systems Limited

CHANGELOG

MSS DOCUMENT CHANGE RECORD

DOCUMENT REF 1-000415

DATE	VERSION	CHANGED BY	CHECKED BY	ECN REF
23/09/2025	1.0	GO	LR	0925-06
25/09/2025	1.1	GO	LR	0925-09