



MS1200-S | OIL IN WATER ANALYZER | 1 - 3000 ppb

The MS1200-S is part of the next generation of Multisensor Systems' on-line **Oil in Water and Pollution Analyzers** 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 | |
| ANALOG INPUT | 4 mA | 20 mA | Scalable to range required, max load 750 Ω, loop powered or instrument powered |
| ANALOG OUTPUT | 4 mA | 20 mA | |
| ANALOG 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

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| 23/09/2025 | 1.1 | GO | LR | 0925-04 |
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