



MS1210-S | OIL IN WATER ANALYSER | 0.1 - 40 PPM

The MS1210-S is an industrial **oil in water analyser** designed to monitor the outflows from industrial facilities, water in cooling systems and to detect fuels and other VOCs in drains and waste water networks. The presence of pollutants such as BTEX, trichloroethylene (TCE), tetrachloroethylene (PCE or Perc), vinyl chloride, 1,2-dichloroethane, 1,1,1-trichloroethane, 1,1-dichloroethylene, styrene can lead to heavy fines and process contamination. The instrument works by sensing gases or volatiles to provide a non-contact measurement system with very low maintenance requirements.

APPLICATIONS

- Monitoring of industrial outflows
- Contamination alert in cooling water systems
- Management of drain and stormwater systems
- Detection of fuel pollution in surface water
- Protection of desalination plants
- Refineries and petrochemical industries

FEATURES AND BENEFITS

- Accurate down to 0.1 ppm concentrations
- Contactless measurement
- Detects VOCs, BTEX, fuel oils and PAH
- Relay control of users' pumps and valves
- Powerful diagnostics
- Versatile communication protocols

- ✓ Continuous monitoring
- ✓ Long sensor lifetime: 5+ years*
- ✓ Low operating and maintenance costs
- ✓ Monitors for oil leaks
- ✓ Low maintenance, no sensor cleaning
- ✓ Insensitive to high turbidity
- ✓ Ideal for process water



TECHNICAL SPECIFICATION

PARAMETER	OPERATIONAL REQUIREMENTS		NOTES
	MINIMUM	MAXIMUM	
DETECTION RANGE	0.1 ppm	40 ppm	Total VOCs
4-20 mA RANGE (DEFAULT)	0 ppm	40 ppm	Configurable on commissioning
REPEATABILITY	-2%	+2%	Measured against a 10 ppm toluene solution at standard temperature and pressure; accuracy can be further improved at concentration of interest, using bespoke calibration available 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.



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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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