

Concentration Monitor

The MS1200-SYS is a VOC Hydrocarbon Monitor designed for clean and waste water applications.

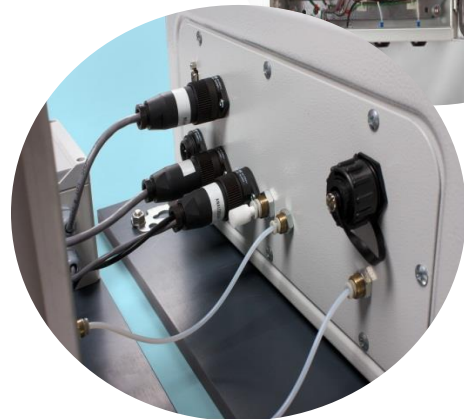
It utilises a unique contactless measurement technique, sensing headspace gases, and provides a very low maintenance and reliable measurement system.

- No probe fouling
- No probe corrosion
- No Reagents

The MS1200-SYS is supplied with a choice of communications interfaces, power configurations and a sample presentation system

Applications

- Protection of raw water intakes
- Monitoring of groundwater
- GAC Filter Monitoring
- Monitoring the environment
- Detection of oil and fuel discharges



Product Description

The MS1200-SYS is a VOC or Hydrocarbon concentration monitor system designed for clean and waste water monitoring applications. It uses advanced gas sensing technology and signal processing in sensing headspace gases or volatiles in a sample tank.

The MS1200-SYS is accurate to low part per billion (ppb) concentrations and its wide dynamic range allows it to be used in a wide variety of applications.

The MS1200-SYS is housed in a robust steel enclosure, powered from either 90 – 240V AC or 24V DC sources. The sample presentation system is included, comprising a stainless steel sample tank, inlet valve and a waste valve to enable cleaning of the tank. All components are mounted on a PVC backboard.

Alarms can be generated based on user set thresholds. Communications options such as 4 – 20mA, Profibus and Modbus are all available.

All that is required is the water supply, drain and power.

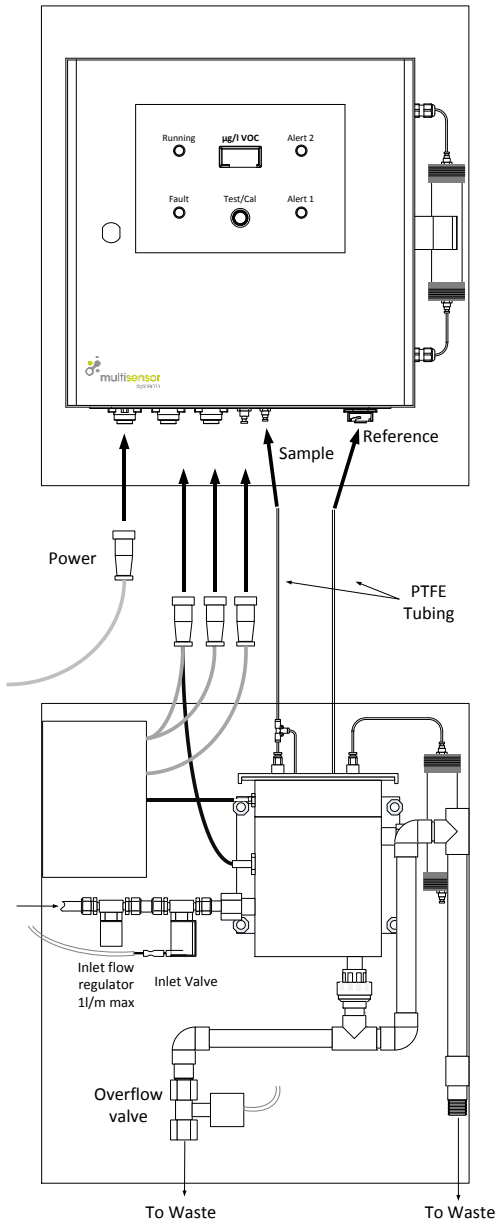
Product Specification

Conforms to	Dimensions
UL 61010-1 / EN 61010-1:2010 EN61326-1:2006	Height 1400mm (55.12ins) x Width 590mm (23.23ins) x Depth 220mm (8.66ins)
Dynamic Range ¹	Absolute Accuracy ²
10 ppb – 1000 ppb in water	For measurement of 200 ppb Total VOCs in Water: ±10%
Repeatability	Analysis time
Repeated measurement of 200 ppb Total VOCs in Water: ±2%	240s, repetition rate 10, 20, 60 mins

1 Measured against Toluene standard

2 20C Water Temp, 20C Ambient Tem





Typical Setup

Operation

The MS1200-SYS samples the headspace above a tank containing the water to be monitored. The water is pumped into the sample tank. The gases in the headspace are then drawn into the instrument and across a sensor array.

Once sampled the water is discharged from a waste pipe. Since no reagents are used this can be connected directly to waste without further treatment or specialist disposal.

The concentration is then displayed on the meter on the front panel and output via the 4 - 20 mA port.

Calibration Period

The instrument and sampling system should be serviced every 6 Months using a Calibration Kit available from Multisensor Systems.

Consumables

Every 6 Months

- Activated Carbon Air Filter Contents
- Dust Filter Element

Every 24 Months

- Air Pump



Multisensor Systems

Multisensor Systems are developers of high performance gas monitors for the water industry, environmental monitoring and industrial process control. Other products include a Trihalomethane Monitor and a range of Volatile Organic Compound / Hydrocarbon Monitors.

MS1100–SYS VOC Event Monitor

A system designed to protect from fuel spills and other fast changing pollution events. Used for raw water intake protection and waste water and industrial effluent monitoring.

MS2000–SYS Total Trihalomethane Concentration Monitor

The MS2000-SYS is a concentration monitor which can be used to monitor drinking water at the output of the treatment works or in the distribution network.

MS3x00–SYS Ammonia Concentration Monitor

The MS3x00–SYS enables online Ammonia Monitoring within regulatory limits and contactless operation in both clean and waste water environments.

Contacts

sensing

measuring

protecting

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