

## Product Description

The MS1900 is an **industrial discharge analyzer** designed to monitor the outflows from industrial facilities, and to detect fuels and other VOCs in sewage systems, drains and other waste water networks.

The instrument works by sensing gases or volatiles to provide a measurement system with very low maintenance requirements.

Taking a measurement every 2 seconds, the MS1900 is accurate in concentrations up to 5 ppm in water and its very wide dynamic range allows it to be used in a wide variety of environments.

For the highest accuracy a sample vessel should be used but the instrument can also be used by directly sampling gases in drains and interceptors to minimize cost.

A user programmable Alert threshold can be set, connecting to relay outputs and indicators on the front panel. This allows connection to other peripheral equipment such as isolation valves, pumps, samplers or audio-visual alarms.

A 4 – 20 mA output is available for connection to a PLC or SCADA system.

The MS1900 can operate from 90 – 240 VAC or 12 VDC power supplies.

## Key Benefits

- Low operating and maintenance costs
- High reliability
- No reagents
- Field proven technology
- Continuous monitoring



*The MS1900 Industrial Effluent Analyzer*

## Applications

- Monitoring of industrial **drains and** discharges
- Monitoring of process water
- River and storm water measurement
- **Oil and Fuel Leak** Detection
- Detection of **VOCs in the sewage system**

## Key Performance Parameters

Parameter		Operational Requirements		Notes
		Minimum	Maximum	
Supply Voltage	AC Version	90 V AC	240 V AC	50 Hz or 60 Hz
	DC Version	10 V DC	15 V DC	
Power Consumption			9 W	Typical 7 W during operation
Working Temp: Ambient		0 °C	50 °C	Higher temperature available
Sampling Period		Continuous measurement		Other sampling periods are available through discussion with Multisensor or an authorized distributor.
Instrument Case		IP67, Polycarbonate		
Detection range		100 ppb	5 ppm	Measured against Toluene standard. For calibration using other compounds contact Multisensor Systems
Accuracy		-15%	+15%	
Analogue Output		4 mA	20 mA	Scalable to range required, max load 900 R
Analogue Output Isolation		400 VDC		Continuous, Opto-isolated
Relay Voltage			50 V	Alarm and Fault Relays with NO and NC contacts
Relay Current			5 A	
Data Interface		USB		Using Multisensor Software provided
Data Storage		µSD Card		Instrument lifetime data stored
Weight		5 kg		
Dimensions		300 x 200 x 132 mm		

An additional air sampling pump may be required dependent upon sampling conditions. Please consult Multisensor systems for more details

## Typical Target Substances

Petroleum Gas	Methane	Iso Butane	Kerosene	Ethanol
Diesel	Iso-butylene	Toluene	Acetone	Xylene
Heptane	Benzene	Methanol	Mercaptan	

## Consumables

Every 6 Months:	Dust Filter Element
Every 12 Months:	Air Pump

## Validation

6 Months - using Validation Kit available from Multisensor Systems or Authorized Distributor

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For more information please visit: [www.multisensorsystems.com](http://www.multisensorsystems.com)  
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