

## Product Description

The MS1800 is a **VOC / Hydrocarbon Concentration Monitor** designed for measuring gases in drains and outflows from industrial facilities.

The instrument senses gases or volatiles providing a measurement system with very low maintenance requirements.

Taking a measurement every 2 seconds, the MS1800 is accurate from <1 to 500 ppm concentrations, dependent upon the target gas, and its wide dynamic range allows it to be used in a wide variety of environments.

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.

## Applications

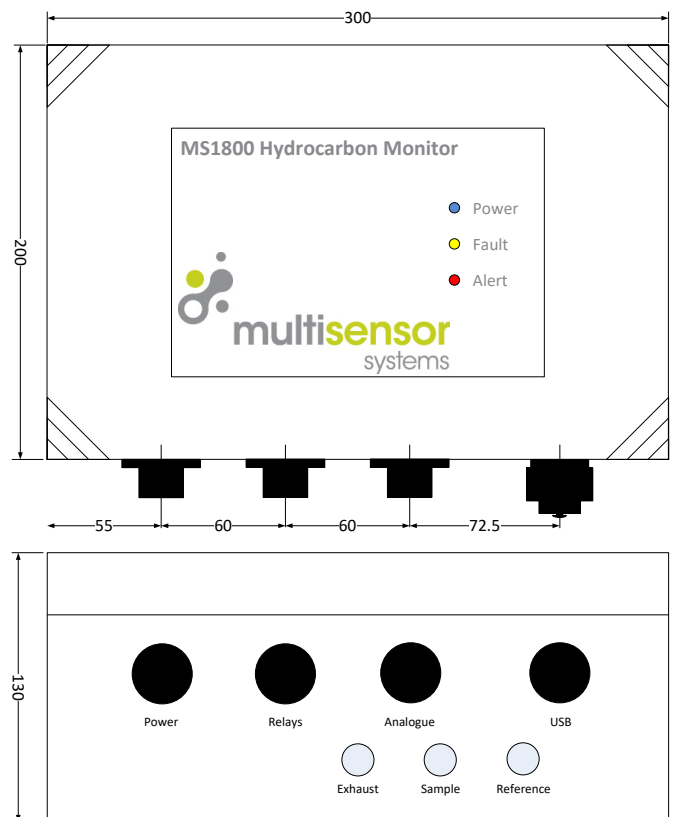
- Monitoring of **drains and effluent** discharges
- Detection of **explosive gases**
- **Oil and Fuel Leak** Detection
- Odour Control
- Land Remediation



Standard Version of the VOC GAS Monitor

## Key Benefits

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



## Key Performance Parameters

Parameter	Operational Requirements		Notes
	Minimum	Maximum	
Supply Voltage	90 V AC	240 V AC	50 Hz or 60 Hz. 12 V DC option available
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 authorised distributor.
Instrument Case	IP67, Polycarbonate		
Detection range	1 ppm	500 ppm	Measured against target gas standard. For calibration using specific compounds contact Multisensor Systems
Accuracy	-10%	+10%	15 ppm sample measured at 25 °C
Analogue Output	4 mA	20 mA	Scalable to range required, max load 900 R
Analogue Output Isolation	400 V		Continuous, Opto-isolated
Relay Voltage		50 V	2x, 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	200 x 200 x 130 mm		

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

## Typical Target Gases and Substances

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

## Consumables

Every 6 Months:	Air Filter Contents (Active Carbon), Dust Filter Element
Every 12 Months:	Air Pump

## Validation

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

Multisensor Systems Limited reserves the right to revise any specifications and data contained within this document without notice.

For more information please visit: [www.multisensor.co.uk](http://www.multisensor.co.uk)

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