

Product Description

The MS1100 is a **VOC / Hydrocarbon Concentration Analyzer** designed for measuring gases in drains and outflows from industrial facilities.

The instrument senses gases or volatiles providing a measurement system which **requires no reagents or carrier gases**, with very low maintenance requirements.

The MS1100 is accurate from <1 to 1,000 ppm concentrations dependent upon the target gas and its wide dynamic range allows it to be used in a wide variety of environments.

User programmable Alert thresholds can be set, connecting to relay outputs and have visible indicators. This allows connection to other peripheral equipment such as isolation valves, pumps, samplers audio-visual alarms.

It is available with a standard display or touch screen interface.

Applications

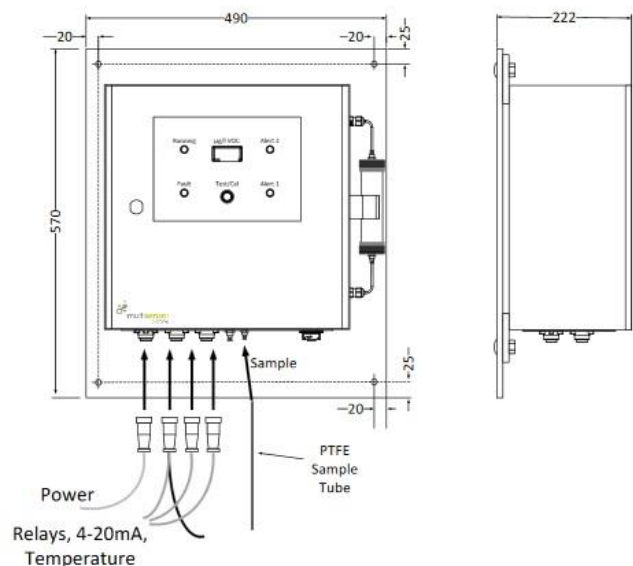
- Monitoring of **drains and effluent** discharges
- Detection of **explosive gases**
- **Oil and Fuel Leak** Detection
- Odor Control
- Land Remediation

Key Benefits

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



Standard Version of the VOC Monitor



Key Performance Parameters

Parameter	Operational Requirements		Notes
	Minimum	Maximum	
Supply Voltage	90 V AC	240 V AC	50 Hz or 60 Hz. 24 V DC option available
Power Consumption: Standard Version Touch Screen Version		15 W 45 W	Typical 7 W during operation Typical 20 W during operation
Working Temp: Ambient	0 °C / 32 °F	50 °C / 122 °F	Higher temperature available
Sampling Period	10 mins	120 mins	User selectable. High concentrations may limit the minimum time period allowed
Instrument Case	IP65, Coated Mild Steel		
Detection range	1 ppm	1000 ppm	Measured against target gas standard. For calibration using selected compounds contact Multisensor Systems
Accuracy	-10%	+10%	15 ppm sample measured at 25 °C (77 °F)
Display range (Default)	0 ppm	1000 ppm	Configurable on commissioning
Analog Output	4 mA	20 mA	Scalable to range required, max load 900 R
Analog Output Isolation	400 V		Continuous, Opto-isolated
Relay Voltage		50 V	3x, Alarm 1, Alarm 2 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	11 kg / 25lb		Including PVC backboard
Dimensions	570 x 490 x 300 mm 22.5 x 19.2 x 12 inches		Mounted on PVC backboard

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	Methyl	Mercaptan	

Consumables

Every 6 Months:	Air Filter Contents (Active Carbon), Dust Filter Element
Every 24 Months:	Air Pump

Validation

6 Months - using Validation Kit available from Multisensor Systems or Authorized 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.multisensorsystems.com

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