



## MS4000-S | VOC GAS ANALYSER | 1 - 3000 PPM

The MS4000-S is a VOC and hydrocarbon gas concentration analyser. It is designed to monitor VOC gases in industrial processes and applications as well as in environmental monitoring applications.

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

### APPLICATIONS

- Monitoring of Total VOC
- Process VOC Monitoring
- Environmental Monitoring
- Detection of VOCs in wastewater systems
- Odour Control
- Sewage Network Monitoring
- Natural Gas Extraction

### FEATURES AND BENEFITS

- Continuous sampling and measurement
- Built-in humidity compensation
- Relay control of users' alarms
- Integrated data logging
- Versatile communication protocols
- Powerful diagnostics



- ✓ Continuous monitoring
- ✓ Long sensor lifetime: 5+ years\*
- ✓ Low operating and maintenance costs
- ✓ Ideal for the industrial sector
- ✓ Low maintenance, no sensor cleaning
- ✓ Field proven technology

## TECHNICAL SPECIFICATION

PARAMETER	OPERATIONAL REQUIREMENTS		NOTES
	MINIMUM	MAXIMUM	
DETECTION RANGE	1 ppm	3000 ppm	Total VOCs
4-20 mA RANGE (DEFAULT)	0 ppm	3000 ppm	Configurable on commissioning
REPEATABILITY	-5%	+5%	Measured against a 100 ppm toluene standard at standard temperature and pressure; accuracy can be further improved at concentrations of interest, using bespoke calibration available on request.
ACCURACY	-15%	+15%	
MEASUREMENT FREQUENCY	Continuous		
AMBIENT TEMPERATURE	0 °C	50 °C	Climate control might be needed depending on process and ambient conditions
RELATIVE HUMIDITY OF SAMPLE		90%	Non-condensing
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	μSD Card / Windows PC		
INSTRUMENT CASE	IP65		Powder coated stainless steel; Power Supply Module IP68
INSTRUMENT WEIGHT	15 kg		
SYSTEM DIMENSIONS	45 x 28 x 20 cm		Power Supply module mounted externally next to instrument.
SUPPLY VOLTAGE	90 VAC	240 VAC	50 Hz or 60 Hz
POWER CONSUMPTION		25 W	

\*Under standard operating conditions

### TYPICAL TARGET SUBSTANCES

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



### CONSUMABLES

6 Months or as required: Filters and restrictors

### 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

MSS DOCUMENT CHANGE RECORD

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