



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

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