

## MS2000-S | TOTAL THM ANALYSER | 1 - 500 PPB

The MS2000-S is a **highly sensitive on-line total trihalomethane analyser** which helps water treatment operators optimise their process to meet local regulations. The MS2000-S utilises a contactless measurement technique that greatly reduces maintenance requirements. Furthermore, the instrument does not require reagents, which keeps the ongoing running costs to a minimum.

### APPLICATIONS

- Monitor THMs post-chlorination
- Analyse THMs in the distribution network
- Swimming pools and water parks
- Detect RO membrane breakthrough
- THMs in food & beverage production
- Monitoring THMs in large establishments

### FEATURES AND BENEFITS

- NO REAGENTS: low running costs
- The most cost-effective solution
- High sensitivity: ideal for potable water
- No sensor contact with water
- Low maintenance, no sensor cleaning
- Versatile communication protocols



- ✓ No reagents or gases, low running costs
- ✓ Long sensor lifetime: 5+ years\*
- ✓ Low maintenance, no sensor cleaning
- ✓ Hourly sampling with instant results
- ✓ Low cost of ownership

## TECHNICAL SPECIFICATION

PARAMETER	OPERATIONAL REQUIREMENTS		NOTES
	MINIMUM	MAXIMUM	
DETECTION RANGE	5 ppb	500 ppb	Total THMs; for higher ranges discuss with Multisensor Systems
4-20 mA RANGE (DEFAULT)	0 ppb	200 ppb	Configurable on commissioning
REPEATABILITY	-2%	+2%	+/-10% from 30 to 200 ppb, measured against a 100 ppb chloroform standard at standard temperature and pressure
ACCURACY	-10%	+10%	
MEASUREMENT FREQUENCY	60 minutes		
AMBIENT TEMPERATURE	0 °C	50 °C	Climate control might be needed depending on process and ambient conditions
WATER TEMPERATURE	1 °C	50 °C	
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
SYSTEM WEIGHT	30 kg		
SAMPLING TANK	316 Stainless Steel		
FLOW LIMIT SWITCH			Option available on request
WATER FLOW RATE	2 l/min		
SYSTEM DIMENSIONS	450 x 200 x 680 mm		
SUPPLY VOLTAGE	90 VAC	240 VAC	50 Hz or 60 Hz
POWER CONSUMPTION		25 W	

\*Under standard operating conditions



### 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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