

## 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 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.



## HEAD OFFICE (UNITED KINGDOM)

**Multisensor Systems Ltd.**  
Alexandra Court  
Carrs Road  
Cheadle  
SK8 2JY  
United Kingdom  
T: +44 (0)161 491 5600  
E: info@multisensor.co.uk

## NEW ZEALAND DISTRIBUTOR

**Alphatech System**  
630A Great South Road  
Greenlane  
Auckland 1051  
New Zealand  
  
T: +64 (0) 9 580 1959  
E: info@multisensorsystems.co.nz



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.

The contents of this publication are provided to you "as is" without warranty of any kind, and are subject to change without notice. Multisensor Systems does not assume any responsibility or liability for any damage, whether direct or indirect, relating to the use of this publication.

Multisensor Systems Ltd., Alexandra Court, Carrs Road, Cheadle, SK8 2JY, United Kingdom

©2010-Present, Multisensor Systems Limited

# CHANGELOG

MSS DOCUMENT CHANGE RECORD

DOCUMENT REF 1-000418

DATE	VERSION	CHANGED BY	CHECKED BY	ECN REF
23/09/2025	1.0	GO	LR	0925-06
25/09/2025	1.1	GO	LR	0925-09
01/12/2025	1.2	GO	LR	1225-02