

MS2000-S | TOTAL THM ANALYZER | 1 - 500 PPB

The MS2000-S is a **highly sensitive on-line total trihalomethane analyzer** which helps water treatment operators optimize their process to meet local regulations. The MS2000 utilizes 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
- Analyze 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 | |
| ANALOG INPUT | 4 mA | 20 mA | Scalable to range required, max load 750 Ω, loop powered or instrument powered |
| ANALOG 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

DOCUMENT REF 1-000434

| DATE | VERSION | CHANGED BY | CHECKED BY | ECN REF |
|------------|---------|------------|------------|---------|
| 19/09/2025 | 1.0 | GO | LR | 0925-03 |
| 23/09/2025 | 1.1 | GO | LR | 0925-04 |
| 25/09/2025 | 1.2 | GO | LR | 0925-07 |
| 01/12/2025 | 1.3 | GO | LR | 1225-02 |
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