

# MS2000 THM Monitor

## Product Description

The MS2000-SYS is a Total Trihalomethane (THM) Monitor System designed for potable water applications. It provides on-line, real time monitoring and alarm generation **without the need for additional chemical reagents** and frequent maintenance.

The instrument takes a measurement every 20 minutes from the headspace in the sample presentation system which is provided. The non-invasive method of operation provides for **reliable operation and reduced maintenance**.

The MS2000-SYS is accurate to low ppb concentrations and its dynamic range covers the regulatory limits for THM concentrations in drinking water.

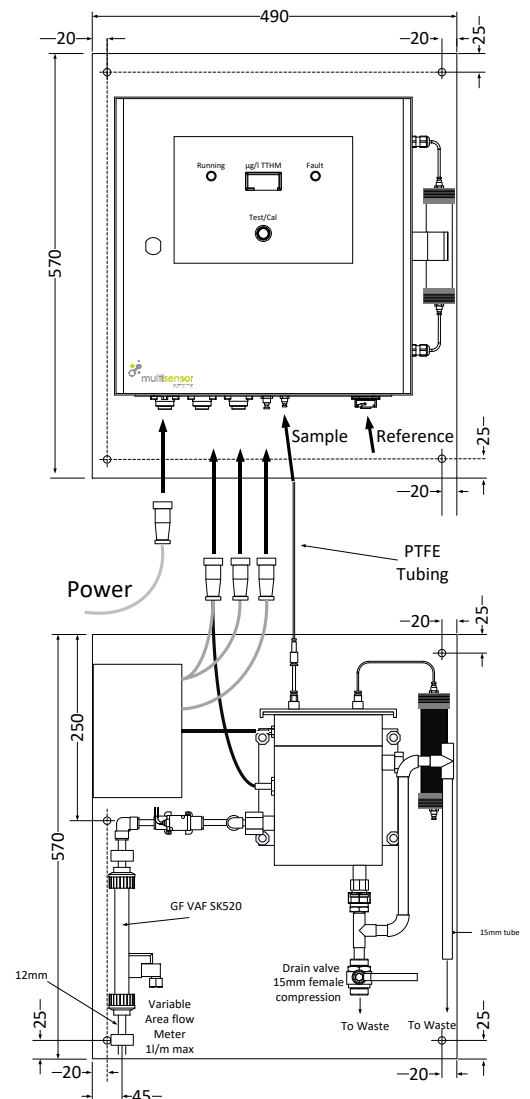


## Applications

- Protection of the drinking water network
- Controlling THM reduction processes
- Regulatory compliance guidance
- Monitoring of swimming pools

## Benefits

- Low maintenance costs
- High reliability
- No reagents
- Field proven technology



The key performance parameters are shown below.

Parameter	Operational Requirements		Notes
	Minimum	Maximum	
Power	90V AC	240V AC	50Hz or 60Hz
Power Consumption		15W	Typical 10W during operation
Water Usage	0.5l/min	1 l/min	20 minute sampling period
Water Pressure		4.0 bar	
Working Temp: Ambient	0C	40C	Higher temperature available
Working Temp: Water	1C	40C	Higher temperature available
Sampling Period	10mins	120mins	User selectable. High concentrations may limit the minimum time period allowed
Instrument Case	IP65, Coated Mild Steel		
Sample Tank Material	316 Stainless Steel		Other materials and coatings available

Parameter	Performance Limits		Notes
	Minimum	Maximum	
Detection range	5ppb	200ppb	Measured against Chloroform standard. For calibration using other compounds contact Multisensor Systems
Accuracy	-10%	+10%	200ppb sample measured using standard 1.5l solution (Water plus Chloroform dissolved in DMSO) in glass 2.5l Winchester type bottle using magnetic stirrer at 25C
Display range (Default)	0ppb	200ppb	Configurable on commissioning
Analogue Output	4mA	20mA	Scalable to range required, max load 900R
Analogue Output Isolation	400V		Continuous, Opto-isolated
Relay Voltage		50V	2x Relays with NO and NC contacts. Used for alarm outputs.
Relay Current		5A	
Flow Switch	Contacts closed if flow below set point		Option available on request
Digital Outputs	Profibus, Modbus		
Weight	25kg		
Dimensions	1170 x 490 x 300mm		Mounted on 2 separate PVC backboards

## Calibration Period

6 Months using Calibration Kit available from Multisensor Systems

## Consumables

### Every 6 Months

- Active Carbon Air Filter Contents
- Dust Filter Element

### Every 24 Months

- Air Pump