



multisensor
systems

MS2000 THM Monitor

Product Description

The MS2000 is a Total Trihalomethane (THM) monitor 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 samples air from the headspace in a sample presentation system which is provided. The non invasive method of operation provides for reliable operation and reduced maintenance.

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

The instrument can be powered from either 90 – 240V AC or 24V DC supplies.



Applications

- Protection of the drinking water distribution network
- Water treatment process monitoring
- Regulatory compliance guidance
- Monitoring of swimming pools

Summary Specification

Conforms to

UL 61010-1 / EN 61010-1:2010
EN61326-1:2006

Dimensions

Height 400mm (15.75ins) x Width 400mm
(15.75ins) x Depth 200mm (7.9ins)

Dynamic Range

1 – 1,000 ppb in water

Absolute Accuracy

For measurement of 80ppb
Total THMs in Water: $\pm 5\%$

Repeatability

For repeated measurement of
80ppb Total THMs in Water: $\pm 2\%$

Analysis time

60s, repetition rate
15, 60, 180 mins

Calibration/ Service Period

6 months

Operating Conditions

Parameter	Notes	Min	Max	Units
AC Power Voltage	50/60Hz Systems, alternative to DC Alternative to AC Continuous	85	264	V rms
DC Power		19	36	V
Power Consumption		50	W	
Temperature		0	40	C
Relative Humidity		0	85	%
Sample Gas Flow		40	60	ml/s
Sample Temperature		2	40	C

Electrical Connections

USB	Connector Type: Version:	USB, Female, IP67 USB2, Full Speed
4 – 20mA loop	Isolation: Maximum Load: Accuracy:	1000V DC 900Ω $I = 4 + ((0.1 \times \text{ppb level}))\text{mA} \pm 0.1\text{mA}$
Profibus	Connector Type: Profile:	9 Way D Type, IP67 Profibus-DP
Relay	Relay Rating:	Maximum current: 5A continuous Maximum Voltage: 50V DC

Additional Equipment required

Sample tank

Consumables

Filters

Filter element, replacement interval: 6 months

Dust filter, element replacement interval: 6 months

Pump

12V air pump, rotary vane, replacement interval: 24 months

