

VOC in Gas Analyzer

MS1800



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Monitoring VOCs in industrial processes

The MS1800 is a **VOC and Hydrocarbon Gas Concentration Analyzer**.

It is designed to monitor VOC gases in **industrial processes** and applications as well as in **environmental monitoring** applications.

The instrument senses gases or volatiles providing a measurement system with very **low maintenance requirements**.

Taking a measurement every 2 seconds, the MS1800 is accurate at concentrations from 1 to 500 ppm, dependent upon the target gas, and its **wide dynamic range** allows it to be used in a variety of environments.

A **user-programmable** concentration alarm threshold can be set, connecting to a relay output and an indicator on the front panel. This allows connection to other peripheral equipment such as isolation valves, pumps, samplers or audio-visual alarms.

A 4–20 mA output is available for connection to a PLC or SCADA system and the MS1800 can operate from 90–240 V AC or 12 V DC power supplies.

- ✓ Continuous monitoring
- ✓ Low operating costs
- ✓ Low maintenance costs
- ✓ High reliability
- ✓ Field proven technology

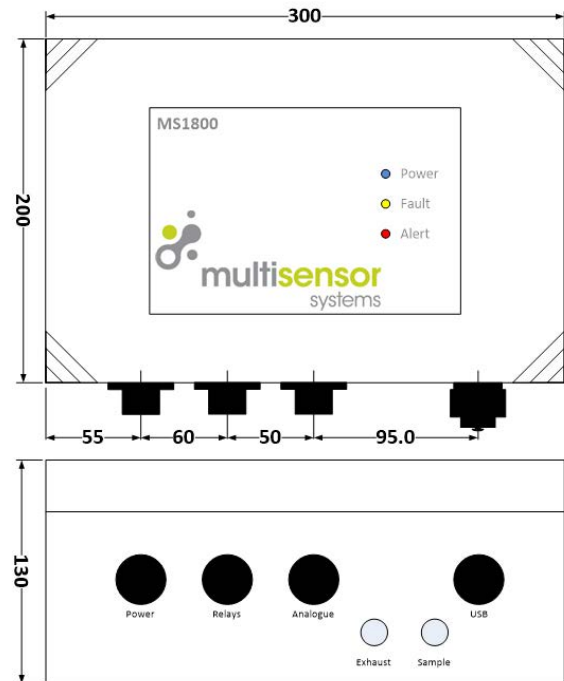


Applications

- Monitoring of Total VOC
- **Process VOC Monitoring**
- Environmental Monitoring
- Detection of VOCs in wastewater systems
- Odor Control
- Land Remediation

Installation

Installation is a **simple process** and consists of connecting the instrument to power and fixing it on a wall or surface. Setup uses a user friendly app running on a laptop PC.



TECHNICAL SPECIFICATION

| PARAMETER | OPERATIONAL REQUIREMENTS | | NOTES |
|-------------------------|--|----------------|---|
| | <i>Minimum</i> | <i>Maximum</i> | |
| Supply Voltage | 90 V AC | 240 V AC | 50 Hz or 60 Hz. 12 V DC option available |
| Power Consumption | | 9 W | Typical 7 W during operation |
| Working Temp: Ambient | 0 °C / 32 °F | 50 °C / 122 °F | Higher temperature available |
| Sampling Period | Continuous measurement | | |
| Instrument Case | IP67, Polycarbonate | | |
| Detection Range | 1 ppm | 500 ppm | Measured against target gas standard. For calibration using specific compounds contact Multisensor Systems |
| Accuracy | -10% | +10% | 15 ppm sample measured at 20 °C |
| Analog Output | 4 mA | 20 mA | Scalable to range required, max load 900 Ω |
| Analog Output Isolation | 400 V DC | | |
| Relay Voltage | | 50 V | Alarm and Fault Relays with NO and NC contacts |
| Relay Current | | 5 A | |
| Data Interface | USB-A to PC | | Using Multisensor Software provided |
| Data Storage | μSD Card | | Instrument lifetime data stored |
| Weight | 5 kg / 11 lbs | | |
| Dimensions | 200 x 200 x 130 mm 7.8 x 7.8 x 5.1 inches | | |

Typical Target Compounds

| | | | | |
|---------------|----------|--------------|---------|-----------|
| Petroleum Gas | Kerosene | Iso-butylene | Xylene | Methanol |
| Methane | Ethanol | Toluene | Heptane | Mercaptan |
| Iso Butane | Diesel | Acetone | Benzene | |

Consumables

| | |
|------------------|----------------------|
| Every 6 Months: | Dust Filter Elements |
| Every 12 Months: | Air Pump |



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Multisensor Systems is a developer and supplier of Water and Gas Analyzers specializing in oil in water, hydrocarbon analyzers, oil in water detectors, THM Analyzers and Ammonia Analyzers based in the United Kingdom.

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