

## Portable ozone monitor

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# SM70

With an integrated LCD display, audible alarm, relay outputs, and a choice of sensor ranges in both ozone and VOC gases – the SM70 offers unbeatable value for industrial and indoor gas monitoring.

The sensor is used by researchers, professionals, and non-experts alike to gather indoor air quality data from indoor environments. Commercially they are used for ozone generator control, process control, monitoring controlled atmospheres, air quality, and health and safety compliance.



## Monitors at a glance

Feature / series	
Active fan sampling	Yes
PC data logging and real-time network capability	No
Multiple analogue and digital outputs	Yes
Interchangeable sensor heads	Replaceable(O <sub>3</sub> sensor board)
Enclosure	No
Options	
Temperature and RH sensor	No
Large LED display	(Built-in 3.5 digit LCD)
Strobe and siren	Buzzer alarm
Gas	
Ozone (O <sub>3</sub> )	Sensor board*

\* See sensor type in specification table.

## Benefits

- Real-time ozone concentrations shown continuously on display
- Multiple outputs for control of external devices e.g. an ozone generator
- Alarm options to signal ozone exceedances for health and safety
- Replaceable ozone sensor board which can be sent back for recalibration
- Plug and play monitor
- Active sampling for improved accuracy
- Compatible with two ranges of ozone sensors



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## Portable ozone monitor

### Specification

Feature / series	SM70
Applications	Ozone monitor for real-time network monitoring, health and safety and process control
Measurement units	Gas: ppm
Reading functions	Instant
Sensor head type	Sensor board, removable / replaceable
Sampling method	Active sampling via sensor board fan
Analog output	0-5 Vdc (LZ sensor board), 0-1.5 Vdc (UZ sensor board)
External signal type	Relay output (24 Vdc; 5 A max.)
External signal functions	Factory configured
External signal input	-
Connectors	Screw type
Monitor Identification (ID)	-
Alarm set points	Factory configured single point
Control set point	Factory configured
Communication	RS232 and RS485 (Aeroqual proprietary protocol)
Software	-
Interface (optional)	RS-485 and RS-232
Power (user supplied)	12 Vdc; 800 mA; Plug-in Vdc power adaptor supplied
Monitor base/enclosure material and rating	Flame resistant PS I IP20, NEMA 1 equivalent
Size (with sensor head) (L x W x H)	130 x 94 x 57 mm; 5 1/8 x 3 3/4 x 2 1/4 in
Weight (Incl. Sensor)	270 g; 9.5 oz (excludes AC power adaptor)
Environmental operating conditions	0 °C to 40 °C 32 °F to 104 °F
Approvals	Part 15 of FCC Rules, EN 61000-6-3: 200, EN 61000-6-1: 2001

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### Ordering information

#### Included

LCD display  
12V DC power adaptor  
Ozone sensor module with calibration certificate  
RS232 digital output  
0-5 V analog output  
Internal piezo (85 db)  
Wall mounting tabs

#### Features

Large format digital display  
Replaceable GSS sensors  
External control outputs  
High and low alarms  
Power adaptor/charger included

#### Sensor heads available for

Ozone (O<sub>3</sub>)  
Volatile organic compounds (VOC)

### Typical applications

- Leak detection
- Health and safety monitoring
- Process control
- Indoor air quality monitoring

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