

Ozone  
monitors

Elektravägen 53  
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# Series 900/930

## Series 900

The Series 900 Fixed Ozone Monitor is a flexible monitor compatible with four ranges of ozone sensor as well as a temperature and humidity sensor, if required. It is designed to measure and control ozone concentrations and communicate to a variety of hardware systems.



## Series 930

The Series 930 is a networkable monitor with control and alarm outputs, all housed in a robust water resistant enclosure. By selecting one of our many interchangeable sensor heads, the Series 930 can be used in a wide range of industrial applications including gas leak detection, health and safety, and process control.



## Series 900 & 930

The sensors are 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.

## Typical applications

- Health and safety specifications
- Indoor air quality monitoring
- Ozone leak detection
- Real-time network monitoring



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## Ozone monitors

### Monitors at a glance

Feature / series	900	930
Active fan sampling	Yes	Yes
PC data logging and real-time network capability	Yes	Yes
Multiple analogue and digital outputs	Yes	Yes
Interchangeable sensor heads	All gases	Some gases
Enclosure	IP20/NEMA 1	IP41/NEMA 2
<b>Options</b>		
Temperature and RH sensor	Yes	Yes
Large LED display		Yes
Strobe and siren		Yes

### Benefits

- Flexible use due to wide range of outputs
- Network capability to monitor at several sites simultaneously
- Easy to configure alarm and control outputs via PC software
- Easy to mount
- Active sampling for higher accuracy
- Changing sensor heads is quick and easy, no additional configuration required

### Additional for 930

- Optional display to report real-time ozone concentrations
- Configurable strobe and siren for alerting ozone exceedences

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## Sensors

Aeroqual uses a unique system of interchangeable sensors making it simple to replace one sensor for another.

Gas* / application type**	ENV	IAQ	IND	900	930
Ammonia (NH <sub>3</sub> )			Yes	Yes	*
Carbon monoxide (CO)	Yes	Yes	Yes	Yes	*
Carbon dioxide (CO <sub>2</sub> )	Yes	Yes	Yes	Yes	
Chlorine (Cl <sub>2</sub> )	Yes		Yes	Yes	Yes
Formaldehyde (CH <sub>2</sub> O)			Yes	Yes	Yes
Hydrogen (H <sub>2</sub> )			Yes	Yes	
Methane (CH <sub>4</sub> )			Yes	Yes	Yes
Hydrogen sulphide (H <sub>2</sub> S)	Yes		Yes	Yes	*
Nitrogen dioxide (NO <sub>2</sub> )	Yes			Yes	Yes
Non methane hydrocarbon (NMHC)	Yes			Yes	
Ozone (O <sub>3</sub> )	Yes	Yes	Yes	Yes	Yes
Perchloroethylene (C <sub>2</sub> Cl <sub>4</sub> )		Yes	Yes	Yes	
Sulphur dioxide (SO <sub>2</sub> )	Yes		Yes	Yes	Yes
Volatile organic compounds (VOC)	Yes		Yes	Yes	*

\* Refer to the separate gas sensor specification sheet for the full range of sensors.

\*\* Application type: ENV = outdoor environmental monitoring, IAQ = indoor air quality, IND = industrial health and safety.

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## Specifications

Feature / series	Series 900	Series 930
Applications	Ozone generator control, indoor air quality, real-time network monitoring, health and safety and process control.	Industrial applications for gas leak detection, real-time network monitoring, health and safety and process control.
Measurement units	Gas: ppm or mg/m <sup>3</sup>   Optional: Humidity: % a Temperature: °C or °F	
Reading functions	Instant, minimum, maximum, average	
Sensor head type	Sensor head – interchangeable 	Sensor head – removable / replaceable 
Sampling method	Active sampling via internal sensor head fan	Active sampling via internal sensor head fan
Analog output	4-20 mA (opto-isolated), 10-30 Vdc	4-20 mA (opto-isolated), 12-24 Vdc
External signal type	Transistor output (4) (24 Vdc at 150 mA max)	
External signal functions	Low alarm   high alarm   control   diagnostics	
External signal input	Standby toggle	
Connectors	Screw type	
Monitor Identification (ID)	1 (Default) User configurable from 1 to 255	
Alarm set points	User configurable low alarm   high alarm	
Control set point	User configurable low alarm   high alarm	
Communication	RS-485 (Aeroqual proprietary protocol)	
Software	Free PC Configuration software and logging Link data to a specific location and monitor (data cable required)	
Interface (optional)	RS-485 to USB cable	
Power (user supplied)	Regulated 12 Vdc, 800 mA	24 Vdc, 500 mA (range 22-24 Vdc)
Monitor base/enclosure material and rating	Polycarbonate   IP20 NEMA 1 equivalent	Polycarbonate   IP41 NEMA 2 equivalent
Size (with sensor head) (L x W x H)	64 H x 130 ø mm; 2½ x 5½ ø in	180 x 110 x 90 mm; 7 ⅛ x 4¾ x 3½ in
Weight (incl. sensor)	< 200 g; < 7 oz	< 850 g; < 30 oz
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	Series 900	Series 930
	Series 900 monitor base	Series 930 monitor base
	4-20 mA analog output	4-20 mA analog output
	RS485 digital output	RS485 digital output
	Low alarm, high alarm, control and diagnostics external signal functions	Low alarm, high alarm, control and diagnostic external signal functions
	Ozone sensor head with calibration certificate	Integrated relays
	Wall mounting kit	Ozone sensor head with calibration certificate (sold separately)
	Temperature and relative humidity sensor (optional)	Wall mounting kit
		Temperature and relative humidity sensor (optional)
		Integrated display (optional)
		Configurable strobe and siren kit (optional)
Features	Series 900	Series 930
	Active sampling for higher accuracy	Active sampling for higher accuracy
	Multiple analog & digital outputs	Tamperproof, water-resistant enclosure
	Real-time network capability	Multiple output transmitter
	Interchangeable sensor heads	Real-time network capability
	PC data logging & networking option	Data-logging and network software included
	Optional temperature & RH sensor	Large LED display option
		Temperature/RH sensor and siren/strobe options

## Optional accessories

Temperature/ RH Sensor	Monitor RS485 to USB Cable	Integrated display (930 only)	Siren & strobe (930 only)
FM TRH01	AS R17	FM DISP01	AS R23D
			

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