aeroqual SERIES 900/930/SM70







Series 900

Shown with optional LED display, strobe and siren

SM70 Fixed Monitor

Aeroqual fixed indoor air quality monitors are designed to make indoor air quality monitoring easy. They 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.

Monitors at a glance

Feature / Series	900	930	SM70
Active fan sampling	√	✓	✓
PC data logging and real-time network capability	✓	✓	
Multiple analogue and digital outputs	✓	✓	✓
Interchangeable sensor heads	All gases	Some gases	Replaceable (O₃ sensor board)
Enclosure	IP20/ NEMA 1	IP41/NEMA 2	IP20/ NEMA 1
Options			
Temperature and RH sensor	√	✓	
Large LED display		✓	(Built-in 3.5 digit LCD)
Strobe and siren		✓	Buzzer alarm

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#	SM70#
Ammonia (NH ₃)			✓	✓	*	
Carbon monoxide (CO)	✓	✓	✓	✓	*	
Carbon dioxide (CO ₂)	✓	✓	✓	✓		
Chlorine (Cl ₂)	✓		✓	✓	✓	
Formaldehyde (CH ₂ O)			✓	✓	✓	
Hydrogen (H ₂)			✓	✓		
Methane (CH ₄)			✓	✓	✓	
Hydrogen sulphide (H ₂ S)	✓		✓	✓	*	
Nitrogen dioxide (NO ₂)	✓			✓	✓	
Non methane hydrocarbon (NMHC)	~			✓		
Ozone (O ₃)	✓	✓	✓	✓	✓	Sensor board
Perchloroethylene (C ₂ Cl ₄)		✓	✓	✓		
Sulphur dioxide (SO ₂)	✓		✓	✓	✓	
Volatile organic compounds (VOC)	✓		✓	✓	*	

^{*} 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.

[#]See sensor type in specification table

Specifications

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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.	Ozone monitor for real-time network monitoring, health and safety and process control.		
Gas: ppm or mg/m³ Optional: Hum	Gas: ppm or mg/m³ Optional: Humidity: % a Temperature: °C or °F			
Instant, minimum, m	Instant			
Sensor head	Sensor head	Sensor board		
<u>-</u>	·	Removable / replaceable Active sampling via		
head fan	sensor head fan	sensor board fan		
4-20 mA (opto-isolated), 10-30 Vdc	4-20 mA (opto-isolated), 12-24 Vdc	0-5 Vdc (LZ sensor board), 0-1.5 Vdc (UZ sensor board)		
	Relay output (24 Vdc; 5 A max.)			
Low Alarm High Alarm	Factory configured			
Standby				
Screw	Screw type			
1 (Default) User configurable from 1 to 255				
	Factory configured single point			
User configurable		Factory configured		
RS-485		RS232 and RS485 (Aeroqual proprietary protocol)		
Free PC Configuration s Link data to a specific I				
RS-485 to USB cable		RS-485 and RS-232		
Regulated 12 Vdc, 800 mA	24 Vdc, 500 mA (range 22-24 Vdc)	12 Vdc; 800 mA; Plug-in Vdc power adaptor supplied		
Polycarbonate IP20 NEMA 1 equivalent	Polycarbonate IP41 NEMA 2 equivalent	Flame resistant PS I IP20 NEMA 1 equivalent		
64 H x 130 ∅ mm; 2½ x 5% ∅ in	180 x 110 x 90 mm 7 1/2 x 43/4 x 31/2 in	130 x 94 x 57 mm 5 1/8 x 3 3/4 x 2 1/4 in		
< 200 g;	< 850 g;	270 g; 9.5 oz		
<pre>< 7 oz < 30 oz (excludes AC power adaptor) 0°C to 40°C 32°F to 104°F</pre>				
	air quality, real-time network monitoring, health and safety and process control. Gas: ppm or mg/m³ Optional: Hum Instant, minimum, m Instant,	air quality, real-time network monitoring, health and safety and process control. Gas: ppm or mg/m³ Optional: Humidity: % a Temperature: °C or °F Instant, minimum, maximum, average Sensor head Interchangeable Active sampling via internal sensor head fan 4-20 mA (opto-isolated), 10-30 Vdc Transistor output (4) (24 Vdc at 150 mA max) Low Alarm High Alarm Control Diagnostics Standby toggle Screw type 1 (Default) User configurable from 1 to 255 User configurable Low Alarm High Alarm RS-485 (Aeroqual proprietary protocol) Free PC Configuration software and logging Link data to a specific location and monitor (Data cable required) RS-485 to USB cable Regulated 12 Vdc, 800 mA Reduction, real-time network monitoring, health and safety and process control. Sensor head Removable / Replaceable Active sampling via internal sensor head fan 4-20 mA (opto-isolated), 12-24 Vdc Transistor output (4) (24 Vdc at 150 mA max) Low Alarm High Alarm Control Diagnostics Standby toggle Screw type 1 (Default) User configurable from 1 to 255 User configurable Low Alarm High Alarm RS-485 (Aeroqual proprietary protocol) Free PC Configuration software and logging Link data to a specific location and monitor (Data cable required) RS-485 to USB cable Regulated 12 Vdc, 800 mA Regulated 12 Vdc, 800 mA Polycarbonate IP20 NEMA 1 equivalent NEMA 2 equivalent NEMA 2 equivalent 64 H x 130 Ø mm; 180 x 110 x 90 mm 2½ x 5½ Ø Ø in 7½ x 4¾ x 3½ in 4		

Optional accessories







Monitor RS485 to USB Cable AS R17



Integrated display (930 Only) FM DISP01



O Only) Siren & strobe (930 Only)
AS R23D

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