

SERIES 930 - FIXED GAS MONITOR

PRODUCT INFORMATION

OVERVIEW 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.

Gases available: Ammonia (NH₃), Carbon Monoxide (CO), Formaldehyde (CH₂O), Hydrogen (H₂), Hydrogen Sulphide (H₂S), Methane (CH₄), Non-Metal Hydrocarbon (NMHC), Nitrogen Dioxide (NO₂), Ozone (O₃), Sulphur Dioxide (SO₂), Volatile Organic Compound (VOC).

FEATURES

- Active sampling for higher accuracy
- Tamperproof, water-resistant enclosure
- Multiple output transmitter
- Real-time network capability
- Data-logging and network software included
- Large LED local display option
- Temperature/RH sensor and Siren/Strobe options

SPECIFICATIONS

Power (user supplied)	24V DC, 500mA (range 22-26V DC)
Analogue output	4-20mA (opto-isolated), 12-24V
External signal type	Transistor output (150mA max)
External signals (4)	Low Alarm High Alarm Control Diagnostics
LED Display	Optional
Inputs	Standby toggle
Communication	RS485 (Aeroqual proprietary protocol)
Jumpers	J1, J2, J3 termination resistors
Connectors	Screw
ID 1 (Default)	User configurable from 1 to 255
Alarm set points (2)	User configurable
Control set point	User configurable
Removable/replaceable sensor head	Yes
Sampling method	Active sampling via internal sensor fan
Temperature & humidity sensor (Optional)	Range -40°C to 124°C (-40°F to 255°F) Range 0 to 100% RH
Configuration software	PC Configuration Software
Data logging & networking software	PC Data Logging & Networking Software
Enclosure casing	Fibre reinforced polycarbonate IP41 & NEMA 2 equivalent
Enclosure size	180 x 110 x 90 (mm); 7 1/8 x 4 3/4 x 3 1/2 (in)
Weight	< 850 g; < 30 oz
Approvals	Part 15 of FCC Rules EN 50082-1: 1997 EN 50081-1: 1992



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AVAILABLE SENSORS

The sensor heads are simple to replace and can be sent back to Aeroqual for recalibration. The sensor heads available with the S930 Fixed Gas Monitor can be found under the sensors tab.



Gas	Sensor Code	Sensor Type	Range (ppm)	Minimum Detection Limit	Accuracy of factory calibration	Resolution (ppm)	Response time (s) ³	Operation conditions	
								Temp	RH
Ammonia (NH3)	ENG	GSE	0-100	0,2	<±0.5ppm + 10%	0,1	120	0 to 40°C	15 to 90%
Carbon monoxide (CO)	ECM	GSE	0-25	0,05	"<±0.5 ppm 0-5 ppm <±10% 5-25ppm"	0,01	60	0 to 40°C	15 to 90%
Carbon monoxide (CO)	ECN	GSE	0-100	0,2	"<±1 ppm 0-10 ppm <±10% 10-100ppm"	0,1	30	0 to 40°C	15 to 90%
Chlorine (Cl2)	ECL	GSE	0-10	0,01	<±0.02ppm + 10%	0,01	30	0 to 40°C	15 to 90%
Formaldehyde (CH2O)	EF	GSE	0-10	0,01	"<±0.05 ppm 0-0.5 ppm <±10% 0.5-10ppm"	0,01	120	0 to 40°C	15 to 90%
Methane (CH4)	MT	GSS	0-10000	10	<±20ppm + 15%	1	60	0 to 40°C	10 to 90%
Hydrogen sulfide (H2S)	EHS	GSE	0-10	0,04	"<±0.05 ppm 0-0.5 ppm <±10% 0.5-10ppm"	0,01	30	0 to 40°C	15 to 90%
Nitrogen dioxide (NO2)	ENW	GSE	0-1	0,005	"<±0.02 ppm 0-0.2 ppm <±10% 0.2-1 ppm"	0,001	30	0 to 40°C	15 to 90%
Ozone (O3)	OZS	GSS	0-0.05	0,001	<±0.002 ppm	0,001	240	0 to 40°C	10 to 90%
Ozone (O3)	OZU / UZ	GSS	0-0.15	0,001	<±0.005 ppm	0,001	60	0 to 40°C	10 to 90%
Ozone (O3)	OZL / LZ	GSS	0-0.5	0,001	"<±0.008 ppm 0-0.1 ppm <±10% 0.1-0.5 ppm"	0,001	60	0 to 40°C	10 to 90%
Ozone (O3)	OZG / GZ	GSS	0-10	0,02	<±0.1ppm + 15%	0,01	60	0 to 40°C	10 to 90%
Ozone (O3)	EOZ	GSE	0-10	0,01	<±0.01 ppm + 7.5%	0,01	60	0 to 40°C	15 to 90%
Sulfur dioxide (SO2)	ESO	GSE	0-10	0,04	"<±0.05 ppm 0-0.5 ppm <±10% 0.5-10ppm"	0,01	60	0 to 40°C	15 to 90%
Sulfur dioxide (SO2)	ESP	GSE	0-100	0,4	"<±0.5 ppm 0-5 ppm <±10% 5-100ppm"	0,1	30	0 to 40°C	15 to 90%
VOC	VM	GSS	0-25	0,1	<±0.1 ppm + 10%	0,1	60	0 to 40°C	10 to 90%
VOC	PDL	PID	0-20	0,01	<±0.02ppm + 10%	0,01	30	0 to 40°C	0 to 95%
VOC	PDH	PID	0-2000	0,1	<±0.2ppm + 10%	<1000ppm: 0.1 >1000ppm: 1	30	0 to 40°C	0 to 95%