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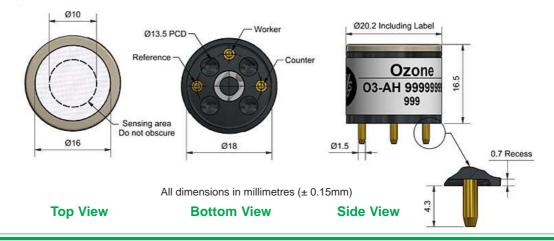
O3-AH Ozone Gas Sensor High Sensitivity



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Figure 1 03-AH Schematic Diagram

Patented



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Sensitivity	nA/ppm at 1ppm O ₃	-200 to -700
Response time	t ₉₀ (s) from zero to 1ppm O ₃	< 80
Zero current	nA in zero air at 20°C	-70 to +70
Range	ppm O ₃ limit of performance warranty	20
Linearity	ppm error at full scale, linear at zero and 20ppm O ₃	$< \pm 0.5$
Overgas limit	maximum ppm for stable response to gas pulse	50

LIFETIME Zero drift		ppb equivalent change/year in lab air	0 to 20
	Sensitivity drift	% change/year in lab air, monthly test	< -20 to -40

Operating life months until 50% original signal (24 month warranted)

ENVIRONMENTAL

Sensitivity @ -20°C	(% output @	-20°C/output @ 20°C) @ 2ppm O ₃	60 to 80
Sensitivity @ 40°C	(% output @	40°C/output @ 20°C) @ 2ppm O ₃	80 to 105
Zero @ -20°C	nA		0 to 25
Zero @ 40°C	nA		20 to 90

CROSS	H ₂ S	sensitivity % measured gas	@	5ppm	H ₂ S	< -80
SENSITIVITY	NO	sensitivity % measured gas	@	5ppm	NŌ	< 5
	Cl ₂	sensitivity % measured gas	@	5ppm	Cl ₂	< 100
	SŌ ₂	sensitivity % measured gas	@	5ppm	SŌ,	< -3
	CO	sensitivity % measured gas	@	5ppm	CO	< -3
	C ₂ H ₄	sensitivity % measured gas	@	100ppm	C_2H_4	< 0.1
	NH_3	sensitivity % measured gas	@	20ppm	$N\bar{H}_3$	< 0.1
	H_{2}	sensitivity % measured gas	@	100ppm	H_{2}	< 0.1
	\overline{CO}_2	sensitivity % measured gas	@	5% Vol	CO_2	< 0.1
	Halothane	sensitivity % measured gas	@	100ppm	Halothane	< 0.1

KEY SPECIFICATIONS

Temperature range	℃	-30 to 40
Pressure range	kPa	80 to 120
Humidity range	% rh continuous	15 to 85
Storage period	months @ 3 to 20°C (stored in sealed pot)	6
Load resistor	Ω (recommended)	33 to 100
Weight	g	< 6

NOTE: all sensors are tested at ambient environmental conditions, with 47 ohm load resistor, unless otherwise stated. As applications of use are outside our control, the information provided is given without legal responsibility. Customers should test under their own conditions, to ensure that the sensors are suitable for their own requirements.

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