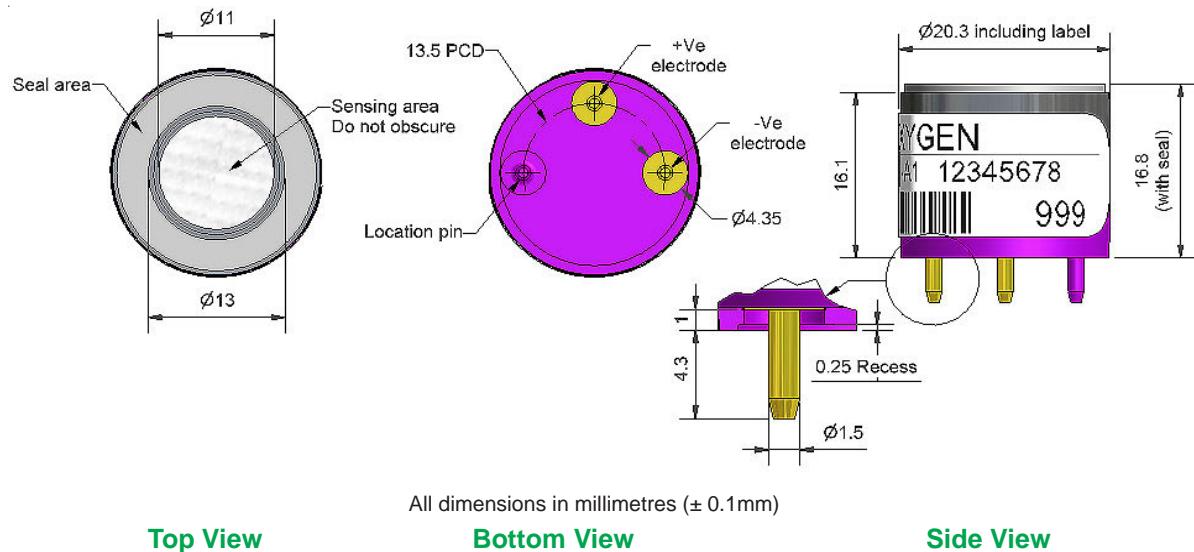


Technical Specification

O2-A1 Oxygen Sensor



Figure 1 O2-A1 Schematic Diagram



Top View

Bottom View

Side View

PERFORMANCE

Output	μA @ 20.9% O_2	200 to 240
Response time	t ₉₀ (s) from 20.9% to 0% O_2	< 15
Zero current	μA in N_2	< 2
Linearity	% O_2 deviation @ 10% O_2	< 0.6

LIFETIME

Output drift	% change in output @ 3 months	< 1
Operating life	months until 85% original output of 20.9% O_2	> 12

ENVIRONMENTAL

Humidity sensitivity	% O_2 change: 0% to 95% rh @ 40°C	< 0.7
CO_2 sensitivity	% (change O_2 reading)/% CO_2 @ 5% CO_2	0.1
Pressure sensitivity	(% change of output)/(% change of pressure) @ 20kPa	< 0.1

KEY SPECIFICATIONS

Temperature range	°C	-30 to 55
Pressure range	kPa	80 to 120
Humidity range	% rh continuous (0 to 99% rh short term)	5 to 95
Storage period	months @ 3 to 20°C (store in sealed pot, open circuit)	6
Load resistor	Ω (recommended)	47 to 100
Diameter	mm (including label)	20.0
Height	mm (including foam ring)	16.8
Weight	g	< 16



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.

Technical Specification

O2-A1 Performance Data

Figure 2 Temperature Dependence in Air

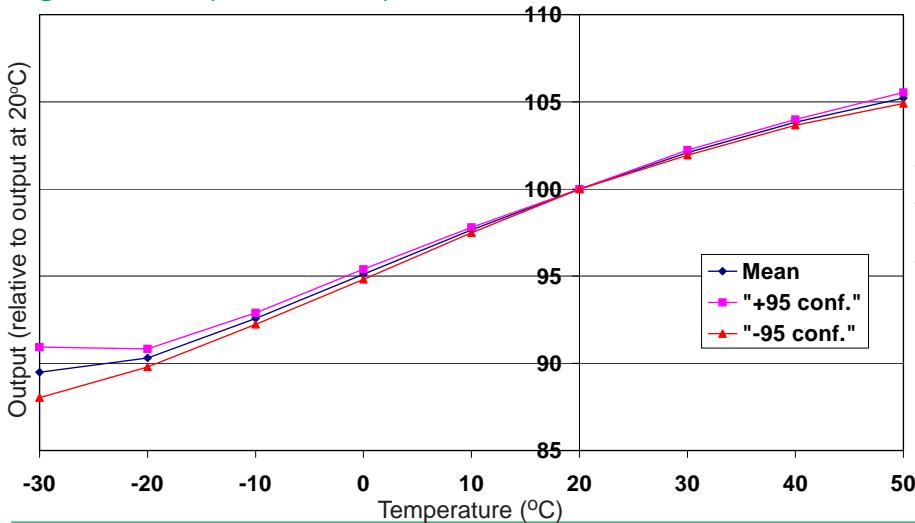


Figure 3 Aspirated Gas Transients

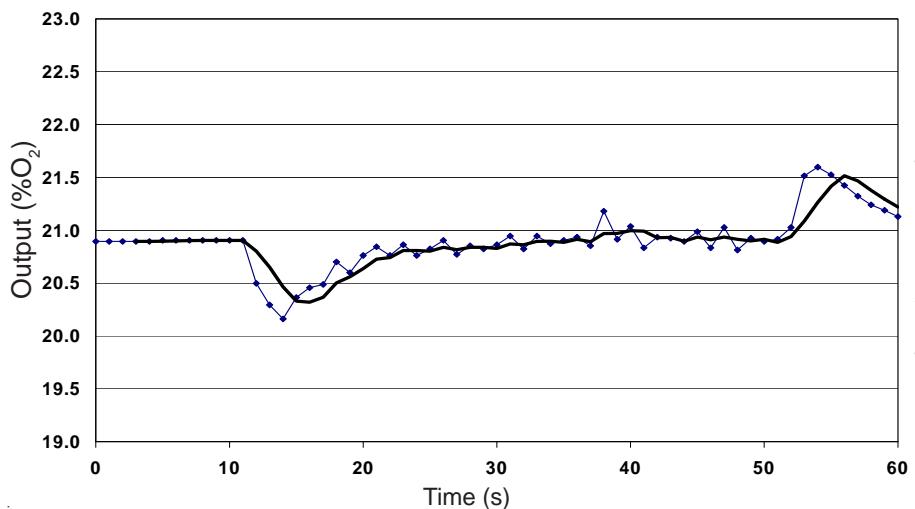


Figure 4 Response to Hydrogen

