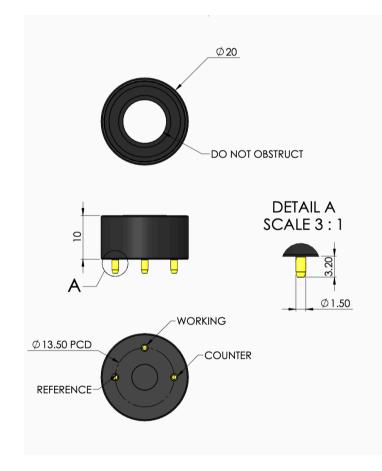
Introduction The DceL O3 is a low profile Ozone sensor ideal for use in portable and fixed gas detectors

Key Features: Low transient response to changes in RH conditions, fast response, high stability, robust environmental performance,

cost effective

Performance Characteristics		
Output signal	1600±600nA/ppm	
Zero Current (Offset)	±0.25ppm	
T90 Response Time (Based on 3min exposure time)	<60secs	
Measurement Range	0 - 20ppm	
Maximum Overload	50ppm	
Linearity	Linear	
Repeatability	±2%	
Recommended Load Resistor	10	

Environmental Details		
Temperature Range Continuous	-20°C to +60°C	
Pressure Range	800 to 1200 mbar	
Operating Humidity Range (non-condensing)	15% to 90% RH (continuous)	



## Important Note:

All performance data is based on conditions at 20°C, 50%RH and 1 atm using DD Scientific recommended circuitry.

Sensor performance is temperature dependent, and please contact DD Scientific for temperature performance other than 20°C.

Product Dimensions
All dimensions in mm
All tolerances ±0.15 mm



**Product** Data Sheet

P/N: DceL O3

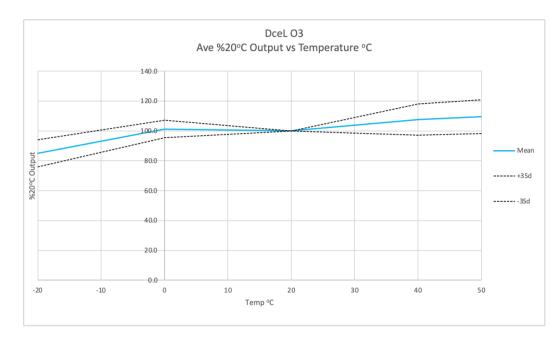
## DceL O3 Ozone Sensor (O3)

Lifetime Details		
Long Term Output Drift	< 20%/annum	
Recommended Storage Temp	0°C to 20°C	
Expected Operating Life	> 24 months in air	
Standard Warranty	12 months from date of dispatch	

Cross - Sensitivity Data				
GAS	CONC	ppmO3 equiv		
Carbon Monoxide	200 ppm	<0.5		
Sulphur dioxide	20 ppm	≈ -12		
Nitrogen dioxide	20 ppm	≈16		
Nitric Oxide	50 ppm	< -0.5		
Hydrogen Sulphide*	25 ppm	-35		
Carbon Dioxide	5000 ppm	0		

Note \*

H2S will cause temporary loss in sensitivity to Ozone



Intrinsic Safety Data		
Maximum current in normal operation (pure O2)	0.3m A	
Maximum o/c Voltage (10 to 100% O2)	1.3 V	
Maximum s/c Current (10 to 100% O2)	1.0 A	

**WARNING:** By the nature of the technology used, any electrochemical gas sensor offered by DD Scientific can potentially fail to meet specification without warning. Although DD Scientific Ltd makes every effort to ensure the reliability of our products of this type, where life safety is a performance requirement of the product, we recommend that all sensors and instruments using these sensors are checked for response to gas before use.

Every effort has been made to ensure the accuracy of this document at the time of printing. In accordance with the company's policy of continued product improvement

DD ŚCIENTIFIC Limited reserves the right to make product changes without notice. No liability is accepted for any consequential losses, injury or damage resulting from the use of this document or from any omissions or errors herein. The data is given for guidance only. It does not constitute a specification or an offer for sale. The products are always subject to a program of improvement and testing which may result in some changes in the characteristics quoted. As the products may be used by the client in circumstances beyond the knowledge and control of DD SCIENTIFIC Limited, we cannot give any warranty as to the relevance of these particulars to an application. It is the clients' responsibility to carry out the necessary tests to determine the usefulness of the products and to ensure their safety of operation in a particular application. Performance characteristics on this data sheet outline the performance of newly supplied sensors. Output signal can drift below the lower limit over time.

