Product Data Sheet

P/N : DceL O3

DceL O3

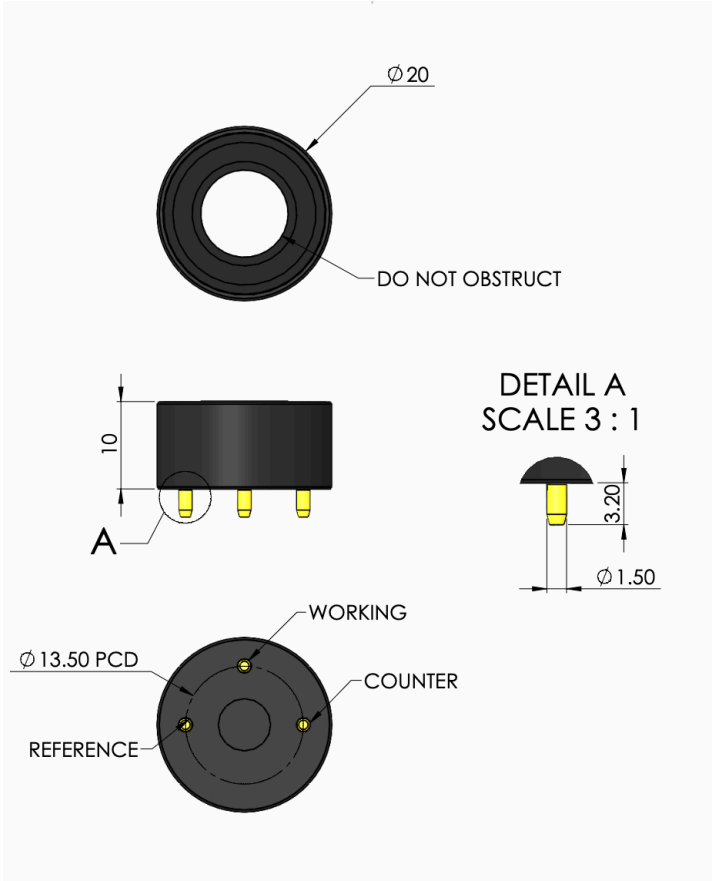
Ozone Sensor (O_3)

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)



Product Dimensions
All dimensions in mm
All tolerances ±0.15 mm

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.

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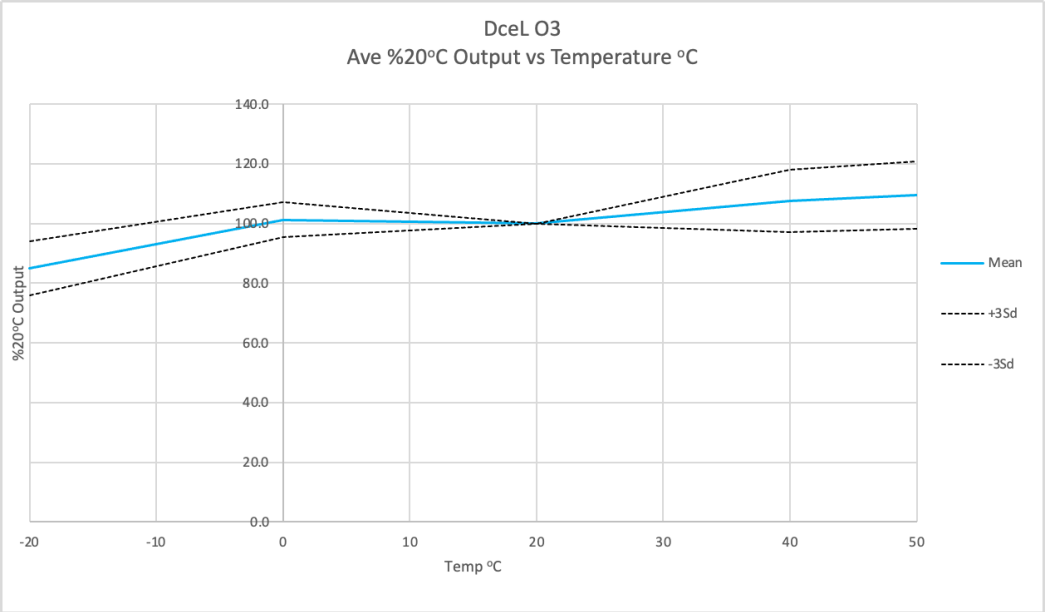
Lifetime Details	
Long Term Output Drift	< 20%/annum
Recommended Storage Temp	0°C to 20°C
Expected Operating Life	> 24 months in air
Standard Warranty	12 months from date of dispatch



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