P/N: DceL NO2

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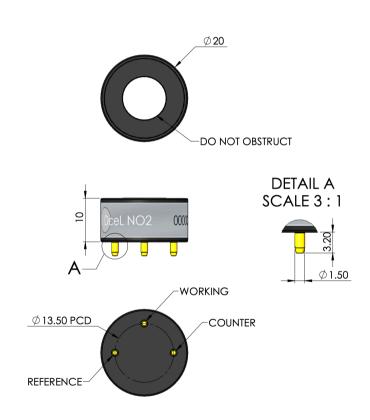
Nitrogen Dioxide Sensor (NO₂)

Introduction The DceL NO2 is a low profile Nitrogen Dioxide sensor ideal for use in portable and fixed gas detectors

Key Features: Fast response, high stability, robust environmental performance, cost effective

Performance Characteristics			
Output signal	170 ± 50nA/ppm		
Zero Current (Offset)	±100 nA		
T90 Response Time	<30secs		
Measurement Range	0 - 50ppm		
Maximum Overload	200ppm		
Linearity	Linear ±5%		
Repeatability	±2%		
Recommended Load Resistor	10		

Environmental Details		
Temperature Range Continuous	-30°C to +50°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



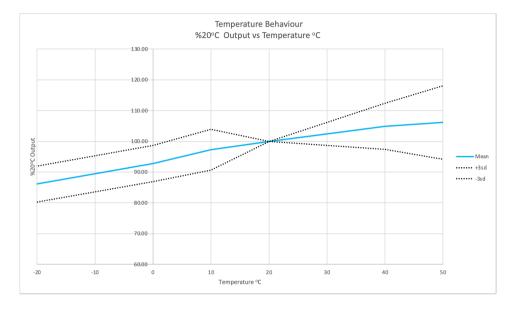
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Lifetime Details		
Long Term Output Drift	< 20%/annum	
Recommended Storage Temp	0°C to 20°C	
Expected Operating Life	> 24 months in air	
Standard Warranty	12 months from date of dispatch	

Cross - Sensitivity Data			
GAS	CONC	ppmNO2 equiv	
Carbon Monoxide	200 ppm	-0.5	
Sulphur dioxide	20 ppm	-1	
Hydrogen	200 ppm	-0.5	
Nitric Oxide	50 ppm	0.5	
Hydrogen Sulphide	25 ppm	-15	
Ammonia	50ppm	0	
Chlorine	20ppm	<15	
Carbon Dioxide	5000 ppm	0	



Poisoning:

DD Scientific sensors are designed to operate in a wide range of harsh environments and conditions. However, it is important that exposure to high concentrations of solvent vapours is avoided, both during storage, fitting into instrument and operation. When using sensors on printed circuit boards (PCB's), degreasing agents should be used prior to the sensor being fitted.

Please note gluing or soldering direct to the pins of DD Scientific Ltd gas sensors will void warranty, please use PCB sockets when

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 SCIENTIFIC 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.

