

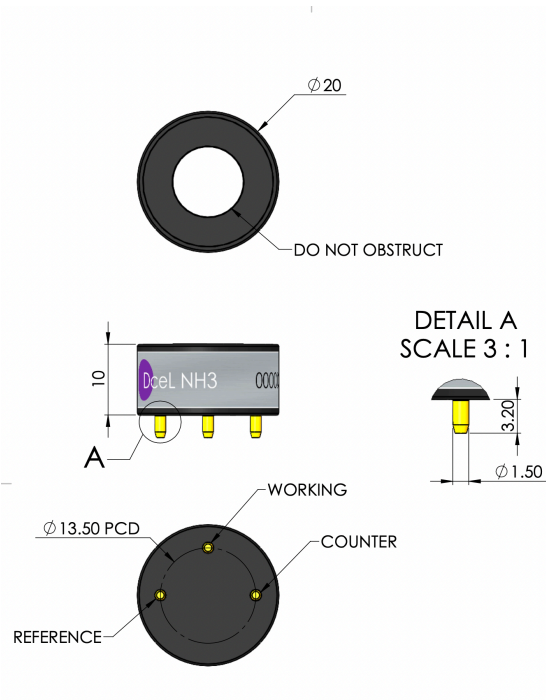
**Introduction**      The DceL NH3 is a low profile high quality NH3 sensor, ideal for use in portable and fixed gas detectors.

**Key Features:**      high stability, fast response and recovery, robust environment performance.

Performance Characteristics	
Output signal	25 ± 15 nA / ppm
Typical Baseline Range (pure air)	±2ppm
T90 Response Time	< 90 seconds
Measurement Range	0 - 500ppm
Maximum Overload	1000 ppm
Linearity	Linear
Repeatability	< ±10% equivalent
Recommended Load Resistor	10 ohms
Resolution (Electronics dependent)	< 2ppm

Environmental Details	
Temperature Range Continuous	-30°C to +50°C
Pressure Range	800 to 1200 mbar
Operating Humidity Range	15% to 90% RH (non condensing)

**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.



ALL TOLERANCES UNLESS STATED:  $\pm 0.15\text{mm}$

Product Dimensions in mm

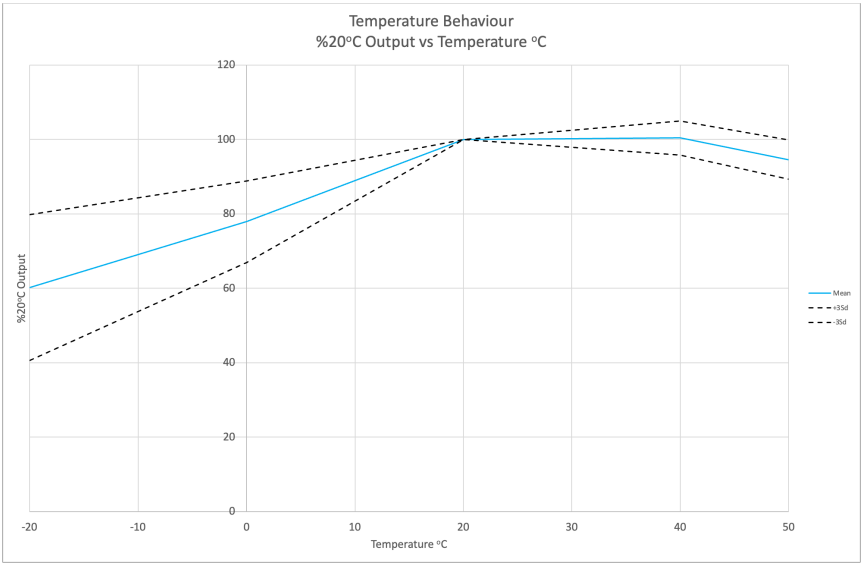
# Product Data Sheet

P/N : DceL NH3

DceL NH3  
Ammonia (NH3)

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

Cross - Sensitivity Data		
GAS	CONC.	ppm
Carbon Monoxide	200 ppm	0
Hydrogen Sulphide	25 ppm	35
Hydrogen	100 ppm	0
Nitric Oxide	50 ppm	0
Nitrogen Dioxide	5 ppm	-7.5



**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 vapors 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 at 2000 ppm	0.3 mA
Maximum o/c Voltage	1.3 V
Maximum s/c Current	<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.

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