Product Data Draft Sheet

P/N: MceL NH3

MceL NH3 Ammonia (NH3)

Introduction The MceL NH3 sensor is a miniature high quality robust NH3 sensor, ideal for use in portable detectors

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

Performance Characteristics		
Output signal	50 ± 20 nA / ppm	
Typical Baseline Range (pure air)	±1 ppm NH3equivalent	
T90 Response Time	< 60 seconds (Typically <40secs)	
Measurement Range	0 - 100 ppm	
Maximum Overload	200 ppm	
Linearity	Linear up to 100 ppm	
Repeatability	<±10%	
Recommended Load Resistor	10 ohms	
Resolution (Electronics dependent)	<1 ppm (typical)	

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Environmental Details		- COP1
Temperature Range Continuous	-30°C to +50°C	
Pressure Range	800 to 1200 mbar	Recommended Socket: Cambion 450-3703-01 03-
Operating Humidity Range	15% to 90% RH	Product Dimensions

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





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	12 months from date of dispatch	

Cross - Sensitivity Data	<u> </u>	
GAS	CONC.	MceLNH3
Hydrogen Sulphide	25 ppm	30 ppm
Sulphur dioxide	20 ppm	-6 ppm
Hydrogen	100 ppm	0 ppm
Nitric Oxide	50 ppm	0 ppm
Ethanol	200 ppm	0 ppm
Carbon Monoxide	200 ppm	0 ppm
Nitrogen Dioxide	20 ppm	-10 ppm

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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 COPY connecting DD Scientific sensors.

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.

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

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