Product Data Sheet

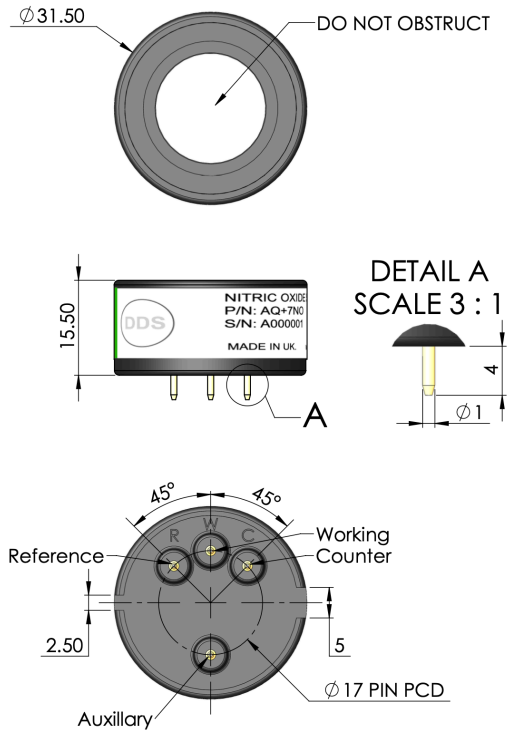
AQ+7NO Nitric Oxide Sensor (NO)

Introduction The AQ+7NO is a 4 Electrode NO sensor designed for use in environmental air quality applications

Key Features: 4th electrode for improved baseline v temperature performance

Net Sensor Performance Characteristics	
Output signal	500 ± 100 nA / ppm
Typical Baseline Range (pure air)	+/- 100 nA (Net S-A Baseline)
T90 Response Time	< 40 seconds
Measurement Range	0 - 25 ppm
Maximum Overload	50 ppm
Linearity	Linear
Repeatability	< ±2% NO equivalent
Recommended Load Resistor	20 ohms
Resolution (Electronics dependent)	< 10 ppb typical
Electrical Bias	+ 300 mV

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



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	< 5% per month
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 (Net Sensor Perfromance)		
GAS	Concentration (ppm)	AQ+7O3 Output Equivalent
Hydrogen Sulphide	25 ppm	< 20 ppb
Carbon Monoxide	1 ppm	< 20 ppb
Sulphur Dioxide	1 ppm	< 20 ppb
Ozone	1 ppm	0 ppb
Nitrogen Dioxide	1 ppm	< 100 ppb

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 connecting DD Scientific sensors.

Website: www.ddscientific.com Email: info@ddscientific.com

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