Product Data Sheet

P/N : GS+7O3

GS+7O3

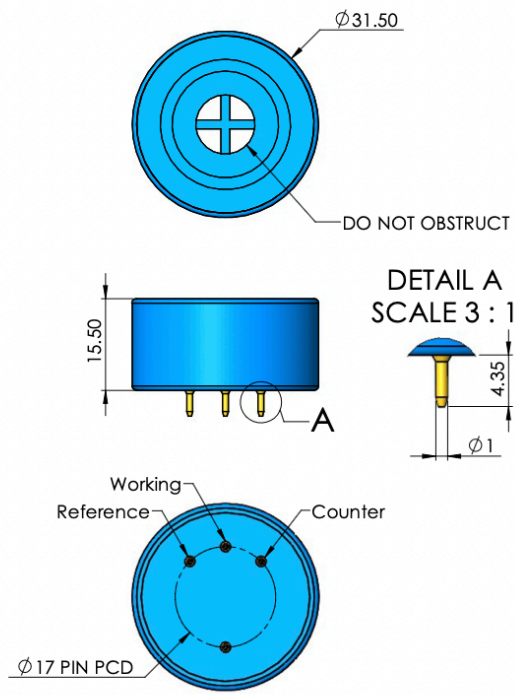
Ozone Sensor (O3)

Introduction The GS+7O3 is a premium industrial ozone sensor, ideal for portable and fixed gas detectors

Key Features: Low response to changes in RH condition, high stability, robust environmental performance, cost effective

Performance Characteristics	
Output signal	5 ± 2uA / ppm
Typical Baseline Range (pure air)	±250 ppb O_3 equivalent
T90 Response Time (3min exposure)	< 120 seconds
Measurement Range	0 - 2 ppm
Maximum Overload	5 ppm
Linearity	Linear
Repeatability	< ±2% O_3 equivalent
Recommended Load Resistor	33 ohms
Resolution (Electronics dependent)	< 30ppb

Environmental Details	
Temperature Range Continuous	-20°C to +50°C
Pressure Range	800 to 1200 mbar
Operating Humidity Range	15% to 90% RH



Product Dimensions

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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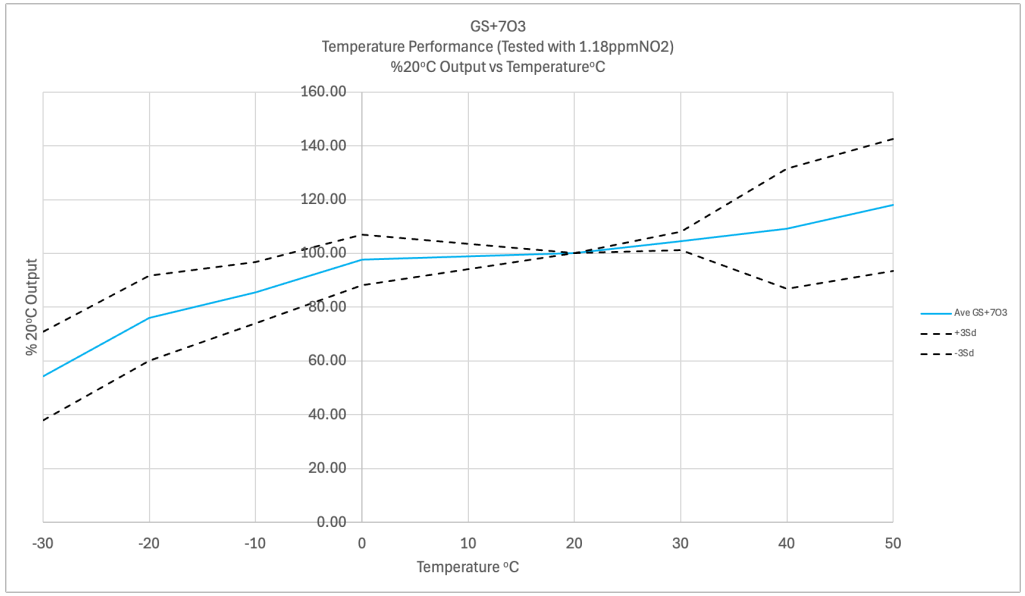
Lifetime Details	
Long Term Output Drift	< 30% per annum
Recommended Storage Temp	0°C to 20°C
Expected Operating Life	> 24 months in air
Standard Warranty	12 months from date of dispatch



Cross - Sensitivity Data		
GAS	CONC.	ppmO3
Carbon Monoxide	200 ppm	-0.1 ppm
Sulphur Dioxide	20 ppm	~ 12ppm
Nitric Oxide	50 ppm	<-0.5ppm
Nitrogen Dioxide	1.2 ppm	~ 1.4ppm
Chlorine	2 ppm	~1.3 ppm
Hydrogen Sulphide **	25 ppm	~ -30ppm

** Following exposure to H2S, sensor will show a significantly lower response to O3. This is temporary and sensor will recover with time

Note: the output of the GS+7O3 sensor is of a negative polarity compared to CO or H_2S

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 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