

Introduction The DceL SO2 is a low profile high quality robust SO2 sensor, ideal for use in portable and fixed gas detectors.

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

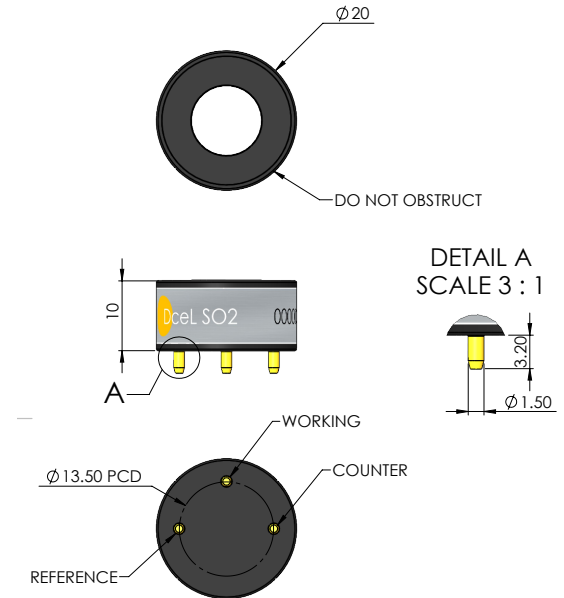
Performance Characteristics	
Output signal	200±50 nA / ppm
Typical Baseline Range (pure air)	±0.5 ppm
Filter Capacity	1000 ppm hours @25ppm H2S
T90 Response Time	< 30 seconds
Measurement Range	0 - 20 ppm
Maximum Overload	200 ppm
Linearity	±5%
Repeatability	< ±2% SO2 equivalent
Recommended Load Resistor	10 ohms
Resolution (Electronics dependent)	< 0.5 ppm typical

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

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: ±0.15mm

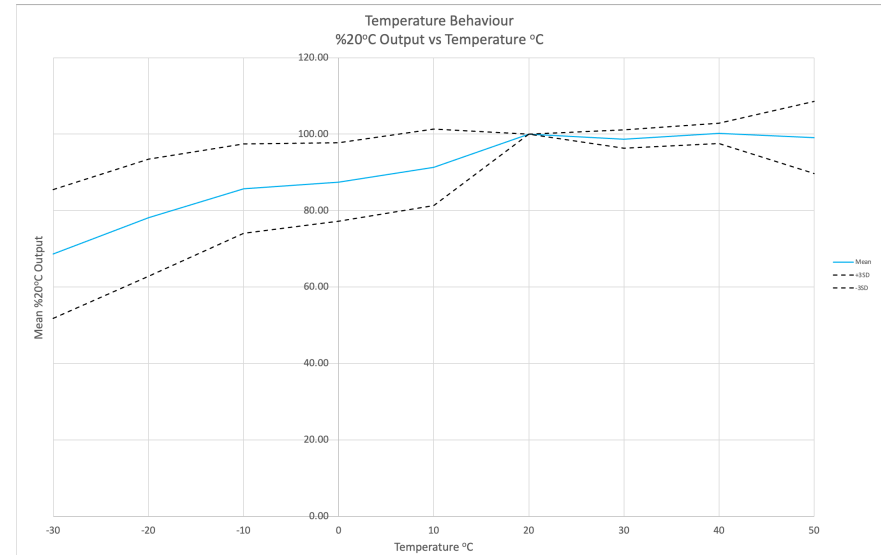
Product Dimensions in mm

Lifetime Details

Long Term Output Drift	< 5% 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.	ppmSO2
Hydrogen Sulphide	50 ppm	<0.5ppm
Carbon Monoxide	200 ppm	<2ppm
Hydrogen	100 ppm	<0.1ppm
Nitric Oxide	50 ppm	<0.1ppm
Ammonia	50 ppm	0ppm
Nitrogen Dioxide	20 ppm	<-30ppm



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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