

# Product Data Sheet

P/N : GS+4CL2

**GS+4CL2**  
Chlorine Sensor (Cl<sub>2</sub>)

**Introduction** The GS+4CL2 is a premium industrial Cl<sub>2</sub> sensor, suitable for portable and fixed gas detectors.

**Key Features:** High stability, fast response and recovery, robust environment performance, cost effective.

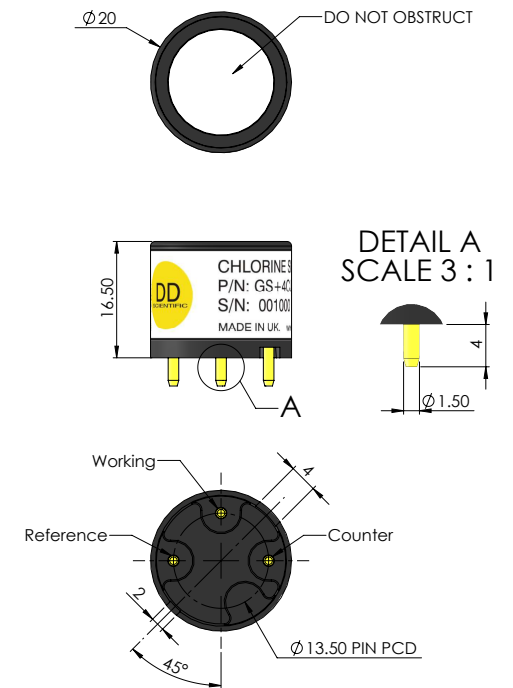
Performance Characteristics	
Output signal	600 ± 200 nA / ppm
Typical Baseline Range (pure air)	±0.2 ppm Cl <sub>2</sub> equivalent
T90 Response Time	< 60 seconds
Measurement Range	0 - 10 ppm
Maximum Overload	100 ppm
Linearity	Linear
Repeatability	< ±2% Cl <sub>2</sub> equivalent
Recommended Load Resistor	33 ohms
Resolution (Electronics dependent)	0.1 ppm typical

Environmental Details	
Temperature Range Continuous	-20°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.



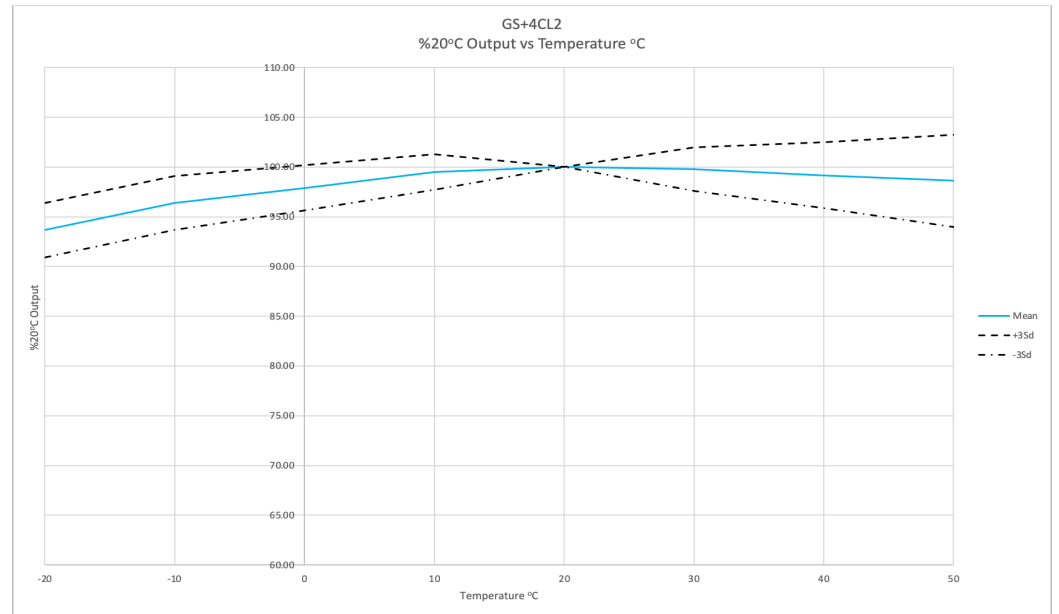
**Product Dimensions**  
All dimensions in mm  
All tolerances ±0.15 mm

### Lifetime Details

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

### Cross - Sensitivity Data

GAS	CONC.	GS+4CL2
Carbon Monoxide	300 ppm	0 ppm
Sulphur dioxide	20 ppm	0 ppm
Nitric Oxide	50 ppm	0 ppm
Hydrogen Sulphide	15 ppm	-7.5 to 0 ppm



#### 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 100 ppm	< 0.2 mA
Maximum o/c Voltage	1.3 V
Maximum s/c Current	<1.0 A

Note: the output of the GS+4CL2 sensor is of a negative polarity compared to CO or H<sub>2</sub>S for example.

**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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