

Product Data Sheet

P/N : GS+7ETO

GS+7ETO
Ethylene Oxide Sensor (ETO)

Introduction The GS+7ETO is a premium Ethylene Oxide sensor, suitable for many applications like fruit ripening.

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

Performance Characteristics

Output signal	2600 ± 700 nA / ppm
Typical Baseline Range (pure air)	0 to +2 ppm ETO equivalent
T90 Response Time	< 140 seconds
Measurement Range	0 - 20 ppm
Maximum Overload	100 ppm
Linearity	Linear
Repeatability	< ±2% ETO equivalent
Recommended Load Resistor	10 ohms
Resolution (Electronics dependent)	0.1 ppm typical
Bias Voltage	+300 mV

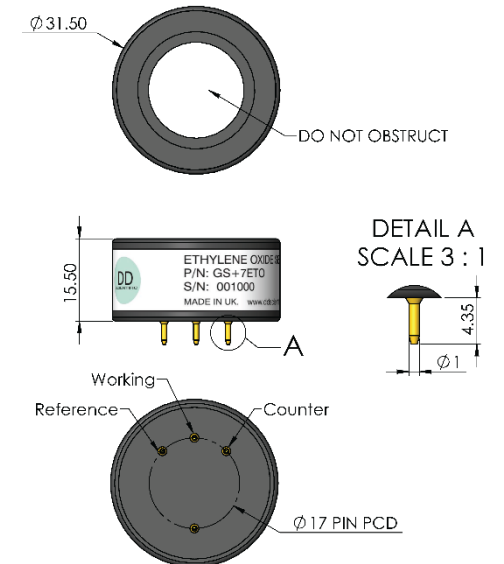
Environmental Details

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

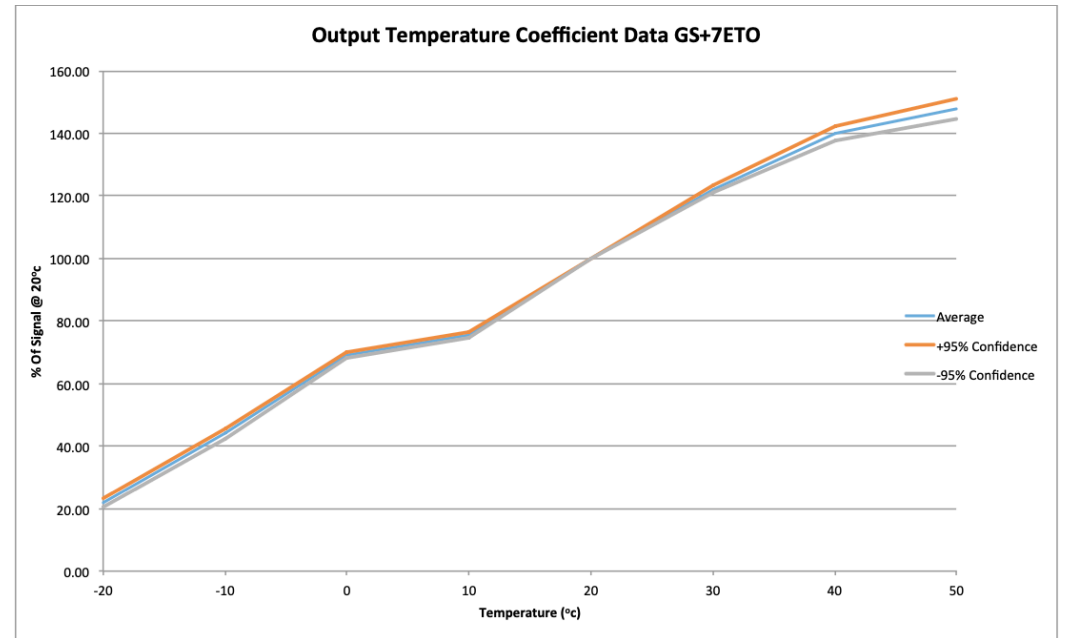
Lifetime Details

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

Cross - Sensitivity Data

GAS	%
Carbon Monoxide	40%
Ethanol	55%
Toluene	20%
Methyl-ethyl-ketone	10%

The cross-sensitivity values quoted are based on tests conducted on a small number of sensors. They are intended to indicate sensor response to gases other than the target gas. Sensors may behave differently with changes in ambient conditions and any batch may show significant variation from the values quoted.



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	< 0.5 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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