

5SC Low CO CiTiceL[®] Sensor

Low CO Sulfur Dioxide (SO₂) Sensor
Product Code: AD528-W00

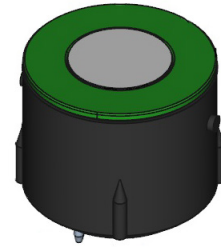
Document Purpose

The purpose of this document is to present the performance specification of the 5SC sulfur dioxide gas sensor.

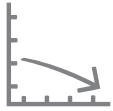
This document should be used in conjunction with Operating Principles (OP08) and the Product Safety Datasheet (PSDS 19).

The data provided in this document are valid at 20°C, 50% RH and 1013 mBar for 3 months from the date of sensor manufacture.

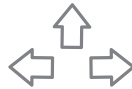
Output signal can drift below the lower limit over time. For guidance on the safe use of the sensor, please refer to the Operating Principles (OP20).



KEY FEATURES & BENEFITS



Low cross
sensitivity to CO



Wide measurement
range and high
maximum overload



Designed to meet
HJ 57-2017 standard



Designed to meet
EN 50379 standard

RoHS 

RoHS Compliant

Poisoning

CiTiceLs are designed for operation in a wide range of environments and harsh conditions. However, it is important that exposure to high concentrations of solvent vapours is avoided, both during storage, fitting into instruments and operation.

When using sensors with printed circuit boards (PCBs), degreasing agents should be used before the sensor is fitted. Do not glue directly on or near the CiTiceL as the solvent may cause crazing of the plastic.

Cross Sensitivity Table

Whilst CiTiceLs are designed to be highly specific to the gas they are intended to measure, they will still respond to some degree to various other gases. The table below is not exclusive and other gases not included in the table may still cause a sensor to react.

IMPORTANT NOTE: The cross sensitivity data shown below does not form part of the product specification and is supplied for guidance only. Values quoted are based on tests conducted on a small number of sensors and any batch may show significant variation. For the most accurate measurements, an instrument should be calibrated using the gas under investigation.

Gas	Cross Interference %
Nitrogen Dioxide, NO ₂	~ -125
Hydrogen Chloride, HCl	0
Ethylene, C ₂ H ₄	<50
Hydrogen, H ₂	<3
Hydrogen Sulfide, H ₂ S	0
Nitric Oxide, NO	0

SAFETY NOTE

This sensor is designed to be used in safety-critical applications. To ensure that the sensor and/or instrument in which it is used, are operating properly, it is a requirement that the function of the device is confirmed by exposure to target gas (bump check) before each use of the sensor and/or instrument. Failure to carry out such tests may jeopardize the safety of people and property.

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