



# PRODUCT SAFETY DATASHEET

## MICS-EK1 Gas Sensor Evaluation Kit

### (including MICS-SMD-PCB5 and SMD Adapter PCB)

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MICS-EK1 (Top) MICS-SMD-PCB5 (Bottom)

## Overview

- **MICS-EK1**  
The Evaluation PCB allows users to evaluate and experiment with the SGX Sensortech (IS) Ltd range of Metal Oxide Semiconductor gas sensors. The kit comprises of PCB, USB interface lead, CD and a power supply inclusive of 4 different mains plug adapters.
- **MICS-SMD-PCB5**  
The Adapter PCB allows the customer to test surface mount Metal Oxide Semiconductor gas sensors in the main PCB of MiCS-EK1. The kit comprises 5 PCBs in a static-safe plastic box. Sensors are sold separately.



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## MICS-EK1 Gas Sensor Evaluation Kit

### (including MICS-SMD-PCB5 and SMD Adapter PCB)

### Inherent Hazards

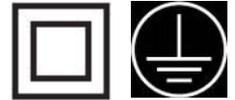
The PCBs contain connectors with sharp pins. Exercise care when handling.

### Transportation Hazards

No hazards exist that require special consideration for transportation as defined by the IATA Dangerous Goods Regulations.

### Operational Hazards

- The Evaluation Kit is despatched from SGX Sensortech (IS) Ltd in a safe condition. Any unauthorised modifications may compromise safety and invalidate the warranty.
- The supplied power supply adapter is double insulated, indicated by the double square symbol. If the Evaluation kit is used with a power supply which is not double insulated, connect a Protective Earthing Connection to the Protective Earth terminal on the PCB indicated by the Protective Earth symbol in case of power supply faults.
- The Evaluation Kit is not certified as intrinsically safe and therefore must not be operated in potentially flammable or explosive atmospheres.
- The Evaluation Kit is not intended for automotive use. It does not contain protection devices against vehicle supply transient voltages and must not be used for the control of a vehicle, a vehicular safety system or in a way that may disturb the driver, data bus or statutory devices fitted to a vehicle.



### Decommissioning

There are no additional hazards associated with the decommissioning of these devices.

### Disposal

- SGX Sensortech (IS) Ltd declares that the Evaluation Kit complies with EC directive 2002/95/EC (the RoHS Directive) restricting the use of certain hazardous materials in electrical and electronic equipment. See the user manual for China RoHS information.
- The Evaluation Kit is classified as Electronic and Electrical Equipment according to directive 2002/96/EC (the WEEE Directive) and should be segregated from domestic waste for disposal. Contact SGX Sensortech (IS) Ltd for disposal instructions.



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|  | <b>PRODUCT SAFETY DATASHEET</b><br><b>MICS-EK1 Gas Sensor Evaluation Kit</b><br><b>(including MICS-SMD-PCB5 and SMD Adapter PCB)</b> |
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## Material Data

The following table of material data provides information to assist disposal in accordance with environmental regulations.

|                                      |                    | Mass (kg) | Approximate Composition (% mass)   |              |              |                              |                                 |  |                     |              |                           |
|--------------------------------------|--------------------|-----------|--|--------------|--------------|------------------------------|---------------------------------|--|---------------------|--------------|---------------------------|
|                                      |                    |           | Lead (Pb)  | Mercury (Hg) | Cadmium (Cd) | Chromium VI Compounds (Cr6+) | Poly-brominated Biphenyls (PBB) | Poly-brominated Diphenyl Ethers (PBDE) | Poly Vinyl Chloride | Polyurethane | Mixed Electronic Material |
| <b>Evaluation Kit MICS-EK1</b>       | Evaluation Kit PCB | 0.042     | Z  | Z            | Z            | Z                            | Z                               | Z                                      | -                   | -            | 100%                      |
|                                      | USB Lead           | 0.081     | Z  | Z            | Z            | Z                            | Z                               | Z                                      | -                   | -            | 100%                      |
|                                      | Power Supply Unit  | 0.183     | Z  | Z            | Z            | Z                            | Z                               | Z                                      | -                   | -            | 100%                      |
| <b>SMD Adapter Kit MICS-SMD-PCB5</b> | SMD Adapter PCB x5 | 0.006     | Z  | Z            | Z            | Z                            | Z                               | Z                                      | -                   | -            | 100%                      |
|                                      | Anti-static box    | 0.021     | Z  | Z            | Z            | Z                            | Z                               | Z                                      | 100%                | -            | -                         |
|                                      | Anti-static foam   | 0.002     | Z  | Z            | Z            | Z                            | Z                               | Z                                      | -                   | 100%         | -                         |
| EU RoHS Directive Statutory limits   |                    |           | 0.1%   | 0.1%         | 0.01%        | 0.1%                         | 0.1%                            | 0.1%                                   |                     |              |                           |
|                                      |                    |           | Z: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the EU RoHS Directive Statutory limits. |              |              |                              |                                 |  |                     |              |                           |

In the event of encountering difficulties in disposing of these products, contact SGX Sensortech (IS) Ltd for advice.