



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx LCIE 13.0044U issue No.:0 Certificate history:.....

Status: **Current**

Date of Issue: **2013-10-18** Page 1 of 3

Applicant: **SGX SENSORTECH S.A**  
Courtils 1,  
CH-2035 Corcelles  
Switzerland

Electrical Apparatus: **Gas sensor**  
Optional accessory:

Type of Protection: **Flameproof enclosures "d"**

Marking: SGX  
Address : ...  
Type : MP-72xx or VQ548MP  
Serial number : ...  
Year of construction : ...  
Ex d IIC Gb  
Ex d I Mb  
IECEx LCIE 13.0044 U

**The marking can be reduce as following :**

SGX  
Type : MP-72xx or VQ548MP  
Ex d IIC Gb  
Ex d I Mb  
IECEx LCIE 13.0044 U

Approved for issue on behalf of the IECEx  
Certification Body:

Julien GAUTHIER

Position:

Certification Officer

Signature:  
(for printed version)

Date:

2013-10-18

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

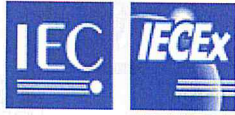
Certificate issued by:

**Laboratoire Central des Industries Electriques (LCIE)**  
33 Avenue du General Leclerc  
FR-92260 Fontenay-aux-Roses  
France

Documents relative to LCIE certification activities (Certificates,  
QARs, ExTRs) can be registered under the references "LCI" or  
"LCIE".



**LCIE**



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Manufacturer: **SGX SENSORTECH S.A**  
Courtils 1,  
CH-2035 Corcelles  
Switzerland

Additional Manufacturing location  
(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

**IEC 60079-0 : 2011** Explosive atmospheres - Part 0: General requirements  
Edition: 6.0

**IEC 60079-1 : 2007-04** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition: 6

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:  
FR/LCIE/EXTR13.0039/00

Quality Assessment Report:

FR/LCIE/QAR13.0011/00



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The components MP-72xx and VQ548MP are catalytic sensors, type « Pellistor » able to measure flammable gas concentration and it's comprised of two identical resistors linked together and deposited onto one or two micro-machined chips, printed circuit board (PCB) and plastic cap equipped with a mesh in contact with environmental atmosphere and flame arrestor.

### SCHEDULE OF LIMITATIONS

Operating ambient temperature : - 40°C to + 60°C

For group I applications, this component must be suitably protected to ensure that it will withstand an impact energy in excess of the 7J low risk of impact value specified in EN 60079-0:2012 standard clause 26.4.

Concerning the use of the Gas sensor, see instruction manual of the manufacturer.

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS.

### CONDITIONS OF CERTIFICATION: NO

Empty box for conditions of certification.