



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 16ATEX2087X** Issue: **1**

4 Equipment: **Portable Gas Detector, Single Gas Clip**
Models: SGC-H, SGC-C, SGC-O, SGC-P-H, SGC-P-C

5 Applicant: **Gas Clip Technologies**

6 Address: 610 Uptown Blvd.
Suite 4100
Cedar Hill
TX 75104
USA

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 CSA Group Netherlands B.V., notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2012/A11:2013

EN 60079-11:2012

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 1G

Ex ia IIC T4 Ga

Model SGC-H & Model SG-P-H, H2S Sensors: $-40^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$

Model SGC-C & Model SG-P-C, CO Sensors: $-40^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$

Model SGC-O, O2 Sensor: $-35^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$

Project Number 1246

Signed: 

Title: Director of Operations

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CSA Group Netherlands B.V.
Utrechseweg 310,
6812 AR, Arnhem,
Netherlands



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 16ATEX2087X
Issue 1

13 DESCRIPTION OF EQUIPMENT

The Gas Clip Technologies' "Single Gas Clip" Toxic Detector Device, models SGC-x or SGC-P-x, are designed to detect the presence of the following toxic gases: Carbon Monoxide (CO) or Hydrogen Sulfide (H₂S) or Oxygen (O₂). They are worn on the person and do not require regular interaction to perform their function.

The devices are comprised of a single printed circuit board housed within a non-metallic enclosure. The printed circuit board is secured to the front half of the enclosure with screws. They are powered by a single, 3.6 V, 1.2 Ah, lithium/thionyl chloride cell (Vitzrocell, Co. Ltd TEKCELL(SB-AA02 or equivalent such as PKCELL, Bobbin 1/2AA Size (ER14250)) or EEMB Co., Ltd.: Bobbin 1/2AA Size (ER14250). This cell is fitted by the manufacturer and is non-rechargeable and non-user replaceable.

The Gas Clip Technologies Single Gas Clip detector is available in the following models.

- SGC-H is single gas detector with an H₂S sensor to sense Hydrogen Sulfide
- SGC-C is single gas detector with a CO sensor to sense Carbon Monoxide
- SGC-O is single gas detector with an O₂ sensor to sense Oxygen
- SGC-P-H is single gas detector with an H₂S sensor to sense Hydrogen Sulfide
- SGC-P-C is single gas detector with a CO sensor to sense Carbon Monoxide

The SGC-P-x models are identical to SGC-x with the exception that it allows the unit to be placed in a hibernate mode to extend battery life.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

| Issue | Date | Report no. | Comment |
|-------|-------------------|------------|--|
| 0 | 01 July 2016 | R70032300A | The release of the prime certificate. |
| 1 | 15th October 2019 | 1246 | <ul style="list-style-type: none">• Transfer of certificate Sira 16ATEX2087X from Sira Certification Service to CSA Group Netherlands B.V.. |

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

- 15.1 Under certain extreme circumstances, exposed plastic and unearthed metal parts of the enclosure may store an ignition-capable level of electrostatic charge. Therefore, the user/installer shall implement precautions to prevent the build-up of electrostatic charge, e.g. locate the equipment where a charge-generating mechanism is unlikely to be present and clean with a damp cloth.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

Certificate Annexe



Certificate Number: Sira 16ATEX2087X

Equipment: Portable Gas Detector, single Gas Clip, SGC

Applicant: Gas Clip Technologies

Issue 0

| Drawing | Sheets | Rev. | Date (Sira stamp) | Title |
|------------------|---------|--------|-------------------|--|
| ST-Ex-H-M-000 | 1 to 1 | 1.1 | 30 Jun 16 | Case Assembly views and sections - SGC |
| ST-Ex-H-M-001 | 1 to 1 | 1.2.3 | 30 Jun 16 | Device Assembly-SGC |
| ST-Ex-H-M-002 | 1 to 1 | 1.2.0 | 30 Jun 16 | Detail dimension of Front Cover-SGC |
| ST-Ex-H-M-003 | 1 to 1 | 1.2.0 | 30 Jun 16 | Detail dimension of Rear Cover-SGC |
| ST-Ex-H-M-004 | 1 to 1 | 1.1 | 30 Jun 16 | SGC Calibration Cap, |
| ST-Ex-H-C-001 | 1 to 1 | 1.24.2 | 30 Jun 16 | Schematic |
| ST-Ex-H-P-001 | 1 to 11 | 1.23 | 30 Jun 16 | SGC PCB layout |
| ST-Ex-H-C-001 | 1 of 2 | 1.24.6 | 30 Jun 16 | Electrical BOM-00715 |
| | 2 of 2 | 1.24.3 | 30 Jun 16 | Mechanical BOM-00739 |
| ST-EX-H-M-010 | 1 to 1 | 1.1.2 | 30 Jun 16 | SGC Front Label |
| 10-ST-EX-H-M-014 | 1 to 1 | 1.1.0 | 30 Jun 16 | SGC Marking Labels |
| ST-Ex-H-B-001 | 1 to 1 | 1.0 | 30 Jun 16 | SGC-Electrical Block Diagram V 1.0 |

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