



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **CSANe 23ATEX1211** Issue: **1**

4 Equipment: **Portable Gas Detector, Model G6-\*-#**

5 Applicant: **Blackline Safety**

6 Address: Unit 100, 803 – 24 Avenue SE  
Calgary  
Alberta  
Canada T2G 1P5

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 IEC 60079-0:2018 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  
Ta = -20°C to +55°C

Signed: M Halliwell

Title: Director of Operations



Project Number 80201839

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CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands



**SCHEDULE**

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**CSANe 23ATEX1211  
Issue 1**

**13 DESCRIPTION OF EQUIPMENT**

The G6-\*-\*# is a portable body worn single-gas detection instrument, where:

'\*' is one alphanumeric character identifying the gas installed.

'#' is an optional up to two alphanumeric characters identifying the cellular carrier (preceding '-' and code may not be present for the default carrier).

The G6-\*-\*# can report information using wireless communication. The device includes momentary switches, and LCD screen, a piezo sounder, LEDs, and a vibration motor for user interaction.

When an alert is triggered, the heightened state of the instrument may be presented to the user through flashing lights, audio, and pertinent information displayed on the LCD screen.

Internally the G6-\*-\*# includes a GNSS receiver, a Bluetooth/WiFi transceiver, a cellular transceiver, powered by a rechargeable lithium polymer battery.

The battery is charged through a proprietary connector, used only for the G6-\*-\*#. Charging shall occur in non-hazardous locations only.

**Variation 1** - This variation introduced the following change:

- i. Evaluation to address component replacement and PCB updates.
- ii. Addition of drawing for approved list of encapsulations.

**14 DESCRIPTIVE DOCUMENTS**

**14.1 Drawings**

Refer to Certificate Annexe.

**14.2 Associated Reports and Certificate History**

Issue	Date	Report number	Comment
0	28 November 2023	R80184671A	The release of the prime certificate.
1	23 September 2024	R80201837A	The introduction of Variation 1.

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

None.

**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.

**17 CONDITIONS OF MANUFACTURE**

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Netherlands B.V. certificates.

17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.



**SCHEDULE**

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- 17.3 100% of conformally coated version of G6 Daughter Card are subject to dielectric strength test as detailed in drawing number G6D-06-xx\_PCBA\_CC, Revision 1.2.

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# Certificate Annexe



**Certificate Number:** CSANe 23ATEX1211

**Equipment:** Portable Gas Detector, Model G6-\*-#

**Applicant:** Blackline Safety

## Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
LBL_104319	1 to 4	3	17 Nov 23	G6 IS Label Content (Pages 1-3)
MAN_106165	1 to 2	2	17 Nov 23	G6 IS Manual Content
01967-A24115	1 to 2	B	17 Nov 23	Certification Assembly G6 Unit
104322	1 to 7	S	17 Nov 23	Top Shell
104323	1 to 8	M	17 Nov 23	Bottom Shell
104325	1 to 2	D	17 Nov 23	Custom Metal Clip
104326	1 to 2	F	17 Nov 23	Sensor Cap Gasket
106447	1 of 1	A	17 Nov 23	IS, Tempered Glass
104328	1 of 1	A	17 Nov 23	Assembly Spacing
104597	1 to 3	I	17 Nov 23	Potting Fence
104828	1 to 3	E	17 Nov 23	Aux Potting Fence
104598	1 to 4	D	17 Nov 23	Sensor Cap
104599	1 to 2	E	17 Nov 23	Enclosure Gasket
104600	1 of 1	C	17 Nov 23	Steel Contact
104601	1 of 1	A	17 Nov 23	Potted PCBA Sub-Assembly
104607	1 to 2	F	17 Nov 23	Sensor Membrane
SCH_104524	1 of 1	1	17 Nov 23	G6 PCM Blank (Schematic)
PCB_104524	1 to 18	1	17 Nov 23	G6 PCM Blank (PCB Layout)
SCH_104072	1 to 13	4	17 Nov 23	G6-04-xx (IS, Schematics)
BOM_104072	1 to 3	5	17 Nov 23	G6 Bill of Material (IS)
PCB_104071	1 to 10	4	17 Nov 23	G6-04-xx (PCB Layout)
SCH_104201	1 to 2	7	17 Nov 23	G6D-07-xx (IS, Schematics) (no conformal coating)
BOM_104201	1 of 1	8	17 Nov 23	G6D Bill of Material (IS) (no conformal coating)
PCB_104200	1 to 6	7	17 Nov 23	G6D-07-xx (PCB Layout) (no conformal coating)
SCH_104201	1 to 2	8	17 Nov 23	G6D-06-xx (IS, Schematics) (conformally coated)
BOM_104201	1 of 1	7	17 Nov 23	G6D Bill of Material (IS) (conformally coated)
PCB_104200	1 to 6	6	17 Nov 23	G6D-06-xx (PCB Layout) (conformally coated)
G6D-06-xx_PCBA_CC	1 to 3	1.2	17 Nov 23	G6D Conformal Coating Procedure
104524	1 of 1	H	17 Nov 23	Battery, G6

## Issue 1

Drawing	Sheets	Rev.	Date (Stamp)	Title
PCB_104071	1 to 15	5	15 Aug 24	G6-04-xx (PCB Layout)
SCH_104072	1 to 13	9	15 Aug 24	G6-04-xx (IS, Schematic)
BOM_104072	1 to 3	9	15 Aug 24	G6 Bill of Material (IS)
106203	1 of 1	1	27 Aug 24	G6 List of Approved Encapsulation/Potting Material

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