



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX CSA 23.0047** Page 1 of 5 [Certificate history:](#)
Issue 0 (2023-11-28)

Status: **Current** Issue No: 1

Date of Issue: 2024-09-23

Applicant: **Blackline Safety**
Unit 100, 803 24 Avenue SE
Calgary
Alberta T2G 1P5
Canada

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

Optional accessory:

Type of Protection: **Intrinsic Safety "ia"**

Marking: Ex ia IIC T4 Ga
Ta = -20°C to +55°C

Approved for issue on behalf of the IECEx
Certification Body:

Dave Magee

Position:

Senior Director of Operations, Toronto

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.



Certificate issued by:

CSA Group
178 Rexdale Boulevard
Toronto, Ontario M9W 1R3
Canada





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Date of issue: 2024-09-23

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Manufacturer: **Blackline Safety**
Unit 100, 803 24 Avenue SE
Calgary
Alberta T2G 1P5
Canada

Manufacturing locations: **Blackline Safety**
Unit 100, 803 24 Avenue SE
Calgary
Alberta T2G 1P5
Canada

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 equipment 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with 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 Reports:

[CA/CSA/ExTR23.0033/00](#)

[CA/CSA/ExTR23.0033/01](#)

Quality Assessment Report:

[CA/CSA/QAR16.0006/06](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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.

SPECIFIC CONDITIONS OF USE: NO



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Equipment (continued):

Conditions of Manufacture

The Manufacturer shall comply with the following:

1. 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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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1 – this Issue introduced the following changes:

1. Evaluation to address component replacement and PCB updates.
2. Addition of drawing for approved list of encapsulations.
3. Correction to Applicant Address from: Blackline Safety, Unit 101, 1215-13th Street SE, Calgary, Alberta, T2G 3J4 Canada, to: Blackline Safety, Unit 100, 803 24 Avenue SE, Calgary, Alberta, Canada T2G 1P5.