



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 UL 22.0077** Page 1 of 4 [Certificate history:](#)
Status: **Current** Issue No: 1 [Issue 0 \(2022-10-28\)](#)
Date of Issue: 2023-02-15
Applicant: **Blackline Safety**
Unit 100, 803 - 24 Avenue SE
Calgary, AB T2G 1P5
Canada
Equipment: **Portable Gas Detector, G6-*#**
Optional accessory:
Type of Protection: **Intrinsic Safety "ia"**
Marking: Ex ia IIC T4 Ga
-20°C ≤ Ta ≤ +55°C

Approved for issue on behalf of the IECEx
Certification Body:

Katy A. Holdredge

Position:

Senior Staff Engineer

Signature:
(for printed version)

Date:
(for printed version)

2023-02-15

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:

UL LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America





IECEX Certificate of Conformity

Certificate No.: **IECEX UL 22.0077**

Page 2 of 4

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Issue No: 1

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

Manufacturing locations: **Blackline Safety**
Unit 100, 803 - 24 Avenue SE
Calgary, AB 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:

[US/UL/ExTR22.0082/00](#)

[US/UL/ExTR22.0082/01](#)

Quality Assessment Report:

[CA/CSA/QAR16.0006/05](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX UL 22.0077**

Page 3 of 4

Date of issue: 2023-02-15

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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 sensor 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, an 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.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: NO



IECEX Certificate of Conformity

Certificate No.: **IECEX UL 22.0077**

Page 4 of 4

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1: Minor enclosure mechanical changes and update of drawings not affecting intrinsic safety.

Annex:

[Annex to IECEx UL 22.0077 Issue 1.pdf](#)



IECEX Certificate of Conformity

Certificate No.:

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Page 1 of 1

TYPE DESIGNATION

Part No. G6-*-*# Portable Gas Detector may be charged only in Non-Hazardous Area.

Nomenclature for type:

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

PARAMETERS RELATING TO THE SAFETY

Powered from single rechargeable Lithium cell, non-user replaceable, Um: 5.625 V

MARKING

Marking has to be readable and indelible; it has to include the following indications:

IECEX UL 22.0077

Ex ia IIC T4 Ga

$-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$

WARNING: Charge only in a nonhazardous location.

AVERTISSEMENT: Chargez uniquement dans un endroit non dangereux.

<Model Number>

<Unit ID>

<Year of Manufacture>

Made In Canada

Blackline Safety | Unit 100, 803 24 Ave SE | T2G 1P5 | Canada

ROUTINE EXAMINATIONS AND TESTS

100% of conformally coated version of G6 Daughter Card are subject to the dielectric strength test as detailed in drawing number G6D-06-xx_PCBA_CC, Revision 1.2.