



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

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEx FTZU 15.0011U**

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Certificate history:

Status: **Current**

Issue No: 7

[Issue 6 \(2022-08-30\)](#)

[Issue 5 \(2022-03-22\)](#)

[Issue 4 \(2021-11-19\)](#)

[Issue 3 \(2020-12-03\)](#)

[Issue 2 \(2017-08-02\)](#)

[Issue 1 \(2017-05-31\)](#)

[Issue 0 \(2015-10-21\)](#)

Date of Issue: 2023-02-07

Applicant: **MSA - The Safety Company**
1000 Cranberry Woods Drive
Cranberry Township
PA 16066
United States of America

Ex Component: G1 SCBA Lithium-Ion Rechargeable Battery Pack

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **intrinsic safety**

Marking: Ex ia IIC T4 Ga

Approved for issue on behalf of the IECEx
Certification Body:

Dipl. Ing. Lukáš Martinák

Position:

Head of the Certification Body

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:

Fyzikálně technický zkusební ústav
(Physical -Technical Testing Institute)
Pikartská 7, 71607 Ostrava - Radvanice
Czech Republic





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Manufacturer: **MSA - The Safety Company**
1000 Cranberry Woods Drive
Cranberry Township
PA 16066
United States of America

Manufacturing
locations:

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 component 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 component listed has successfully met the examination and test requirements as recorded in:

Test Reports:

CZ/FTZU/ExTR15.0011/00
CZ/FTZU/ExTR15.0011/03
CZ/FTZU/ExTR15.0011/06

CZ/FTZU/ExTR15.0011/01
CZ/FTZU/ExTR15.0011/04
CZ/FTZU/ExTR15.0011/07

CZ/FTZU/ExTR15.0011/02
CZ/FTZU/ExTR15.0011/05

Quality Assessment Report:

FR/INE/QAR08.0011/12



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Ex Component(s) covered by this certificate is described below:

The component is the G1 SCBA Lithium-Ion Rechargeable Battery Pack designed for manufacturer's equipment named G1 SCBA Power Module with certificate number IECEx BVS 14.0120X. The component consists of one plastic enclosure with one socket with all connections. There are encapsulated two Lithium-Ion cells with protection circuits on one PCB inside the enclosure.

An ambient temperature: -30°C to +60°C;

A charging temperature: 0°C to +45°C outside the hazardous area;

SCHEDULE OF LIMITATIONS:

1. The component shall only be installed onto the G1 SCBA Power Module with certificate number IECEx BVS 14.0120X which protects this battery pack from mechanical impact and from the risk of electrostatic discharge since the G1 SCBA is required to be worn when in use.
2. The component shall be installed in a manner that ensures that any likely damage from dropping the component has been considered.
3. The component shall only be connected to and charged by an intrinsically safe electrical supply output that limits the voltage and current to the values $U_i = 10.5 \text{ V}$ and $I_i = 0.85 \text{ A}$.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 7:

Added alternative encapsulation material for charging station.