



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: IECEx FTZU 15.0011U Issue No: 2 Certificate history:
Status: Current Issue No. 2 (2017-08-02)
Date of Issue: 2017-08-02 Page 1 of 4 Issue No. 1 (2017-05-31)
Issue No. 0 (2015-10-21)
Applicant: MSA - The Safety Company
1000 Cranberry Woods Drive
Cranberry Township
PA 16066
United States of America
Equipment: G1 SCBA Lithium-Ion Rechargeable Battery Pack
Optional accessory:
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 Certification Body

Signature:
(for printed version)


2017-08-02

Date:

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

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





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Page 2 of 4

Additional Manufacturing location(s):

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 electrical apparatus 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 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0
IEC 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate does not indicate compliance with electrical 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 Report:

[CZ/FTZU/ExTR15.0011/00](#)

[CZ/FTZU/ExTR15.0011/01](#)

[CZ/FTZU/ExTR15.0011/02](#)

Quality Assessment Report:

[FR/INE/QAR08.0011/07](#)



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Certificate No: IECEx FTZU 15.0011U

Issue No: 2

Date of Issue: 2017-08-02

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

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 $I_i = 0.85 \text{ A}$.

SPECIFIC CONDITIONS OF USE: NO



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Page 4 of 4

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

Issue 2:

Minor changes of the charger part PCB.

The approval drawings has been updated.