



(1)

EC-Type Examination Certificate

(2)

Equipment or Protective Systems Intended for Use in Potentially Explosive Atmospheres (Directive 94/9/EC)

(3) EC-Type Examination Certificate Number:

FTZÚ 15 ATEX 0124U

(4) Component:

G1 SCBA Lithium-Ion Rechargeable Battery Pack

(5) Manufacturer:

Mine Safety Appliances Co. LLC

(6) Address:

1000 Cranberry Woods Drive, Cranberry Township, PA 16066, USA

- (7) This Component and any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) The Physical Technical Testing Institute, notified body number 1026 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No:

15/0124 dated 19.10.2015

(9) Compliance with Essential Health and safety requirements has been assured by compliance with:

EN 60079-0:2012, EN 60079-11:2012

- (10) The sign "U" placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.
- (11) This EC-TYPE EXAMINATION CERTIFICATE relates only to design, examination and testing of the specified component in accordance to the Directive 94/9/EC. If applicable, further requirements of the Directive apply to the manufacture and supply of this component.
- (12) The marking of the component shall include the following:

⟨Ex⟩ II 1G Ex ia IIC T4 Ga

This EC-Type Examination Certificate is valid till: 19.10.2020

Responsible person:

Dipl. Ing. Lukáš Martinák Head of Certification Body



Date of issue: 19.10.2015

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(13)

Schedule

(14) EC-Type Examination Certificate N° FTZÚ 15 ATEX 0124U

(15) Description of Component:

The component is the G1 SCBA Lithium-Ion Rechargeable Battery Pack designed for manufacturer's equipment named G1 SCBA Power Module. 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.

Intrinsic safety parameters: $U_i = 10.5 \text{ V}$, $I_i = 0.85 \text{ A}$;

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

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

(16) Report No.: 15/0124

(17) Schedule of Limitations:

- 17.1 The component shall only be installed onto the G1 SCBA Power Module 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.
- 17.2 The component shall be installed in a manner that ensures that any likely damage from dropping the component has been considered.
- 17.3 The component shall only be connected to and charged by an intrinsically safe electrical supply output that limits the voltage and current to the specified values Ui and Ii as shown above.
- (18) Essential Health and Safety Requirements:

Essential health and safety requirement of Directive 94/9/EC are covered by the standards mentioned in the clause (9), to which the product was verified.

(19) List of Documentation:

Number:	Revision:	Date:	Sheets:	Title:
×	0	12.08.2015	-	IS analysis and parts list
SK3098-1343	0	13.08.2015	2	Schematics
SK3098-1341	0	23.07.2015	1	Board parts list
SK3098-1342	0	14.04.2015	9	PCBA artwork
SK3098-1311	0	19.08.2015	2	Battery module
SK3098-1349	0	29.05.2015	1	Charging station
SK3098-1351	0	18.06.2015	12	PCBA charger
SK3098-1347	0	10.08.2015	1	Parts list, Barrier
10170297	0	03.09.2015	1	Installation instructions
SK3098-1355	0	02.10.2015	1	Label

Responsible person:

Dipl. Ing. Lukáš Martinák Head of Certification Body AND THE STATE OF T

Date of issue: 19.10.2015

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(1) Supplementary EU - Type Examination Certificate No. 1

(2) Component Intended for use on/in an Equipment or Protective System Intended for use in Potentially Explosive Atmospheres (Directive 2014/34/EU)

(3) EU - Type Examination Certificate number:

FTZÚ 15 ATEX 0124U

(4) Product: G1 SCBA Lithium-lon Rechargeable Battery Pack

(5) Manufacturer: Mine Safety Appliances Co. LLC

(6) Address: 1000 Cranberry Woods Drive, Cranberry Township, PA 16066, USA

- (7) This supplementary certificate extends EC Type Examination Certificate No. FTZÚ 15 ATEX 0124U to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.
- (8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- (9) In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20.04.2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20.04.2016.
- (10) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012+A11:2013, EN 60079-11:2012

(11) The marking of the product shall include the following:

ξx II 1G Ex ia IIC T4 Ga

(12) This certificate is valid till: 19.10.2020

Responsible person:

Dipt. Ing. Lukáš Martinák Head of Certification Body



Date of issue: 05.09.2016

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(13)

Schedule

(14) Supplementary EU - Type Examination Certificate No. 1 to FTZÚ 15 ATEX 0124U

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Evaluation according to the newest standard: EN 60079-0:2012/A11:2013.
- Update of Installation instructions.

Technical data remain unchanged.

(16) Report Number .:

15/0124/1

(17) Schedule of Limitations:

None additional to those listed previously.

(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (10) of this supplementary certificate.

(19) Drawings and Documents:

Number:

Revision:

Date:

Sheets:

Title:

10170297

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30.08.2016

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Installation instructions

Responsible person:

Dipl. Ing. Lukáš Martinák Head of Certification Body AO 210
NB 1026

Date of issue: 05.09.2016

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(1) Supplementary EU - Type Examination Certificate No.2

(2) Component Intended for use on/in an Equipment or Protective System Intended for use in Potentially Explosive Atmospheres (Directive 2014/34/EU)

(3) EU - Type Examination Certificate number:

FTZÚ 15 ATEX 0124U

(4) Product: G1 SCBA Lithium-lon Rechargeable Battery Pack

(5) Manufacturer: MSA - The Safety Company

(6) Address: 1000 Cranberry Woods Drive, Cranberry Township, PA 16066, USA

- (7) This supplementary certificate extends EC Type Examination Certificate No. FTZÚ 15 ATEX 0124U to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.
- (8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- (9) In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20.04.2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20.04.2016.
- (10) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012+A11:2013, EN 60079-11:2012

(11) The marking of the product shall include the following:

⟨Ex⟩ II 1G Ex ia IIC T4 Ga

(12) This certificate is valid till: 19.10.2020

Responsible person:

Dipl. Ing. Lukáš Martinák Head of Certification Body



Date of issue: 31.05.2017

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(13)

Schedule

(14) Supplementary EU - Type Examination Certificate No. 2 to FTZÚ 15 ATEX 0124U

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Modification of certified apparatus;
- Change of name of manufacturer.

Some elements on PCB have been modified. The manufacturer has updated board parts list and schematics. The manufacturer's name has been changed from Mine Safety Appliances Company to MSA – The Safety Company.

- (16) Report Number.: 15/0124/2
- (17) Schedule of Limitations:

None additional to those listed previously.

(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (10) of this supplementary certificate.

(19) Drawings and Documents:

Number:	Revision:	Date:	Sheets:	Title:
	1	30.05.2017	-	IS analysis and parts list
SK3098-1343	1	11.05.2017	2	Schematics
SK3098-1341	1	30.05.2017	1	Board parts list

Responsible person:

Dipl. Ing. Lukáš Martinák Head of Certification Body



Date of issue: 31.05.2017

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(1) Supplementary EU - Type Examination Certificate No.3

(2) Component Intended for use on/in an Equipment or Protective System
Intended for use in Potentially Explosive Atmospheres
(Directive 2014/34/EU)

(3) EU - Type Examination Certificate number:

FTZÚ 15 ATEX 0124U

(4) Product: G1 SCBA Lithium-lon Rechargeable Battery Pack

(5) Manufacturer: MSA - The Safety Company

(6) Address: 1000 Cranberry Woods Drive, Cranberry Township, PA 16066, USA

- (7) This supplementary certificate extends EC Type Examination Certificate No. FTZÚ 15 ATEX 0124U to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.
- (8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product, as modified by this supplementary certificate, has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- (9) In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20.04.2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20.04.2016.
- (10) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012+A11:2013, EN 60079-11:2012

(11) The marking of the product shall include the following:

⟨Ex⟩ II 1G Ex ia IIC T4 Ga

(12) This certificate is valid till: 19.10.2020

Responsible person

Dipl. Ing. Lukáš Martinák Head of Certification Body TZU G NOTE OF THE STATE OF THE

Date of issue: 02.08.2017

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Schedule (13)

Supplementary EU - Type Examination Certificate No. 3 (14)to FTZÚ 15 ATEX 0124U

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Modification of certified apparatus;

Minor changes of the charger part PCB.

The approval drawing has been updated.

- (16) Report Number .: 15/0124/3
- (17) Schedule of Limitations:

None additional to those listed previously.

(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (10) of this supplementary certificate.

(19) Drawings and Documents:

Number: Revision: Date: Sheets: Title:

SK3098-1351 1 28.07.2017 12 PCBA charger

Responsible person:

Dipl. Ing. Lukáš Martinák

Head of Certification Body



Date of issue: 02.08.2017

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