



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 BVS 21.0023**

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Certificate history:

Status: **Current**

Issue No: 2

[Issue 1 \(2021-10-11\)](#)

[Issue 0 \(2021-06-17\)](#)

Date of Issue: 2025-08-28

Applicant: **MSA EUROPE GmbH**
Schlüsselstr. 12
8645 Rapperswil-Jona
Switzerland

Equipment: **Repeater to improve the range of telemetry monitoring type M1 Repeater**

Optional accessory:

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

Marking: **Ex ia IIC T4 Ga**

Approved for issue on behalf of the IECEx
Certification Body:

Deniz Pezzutto

Position:

Certification Manager

Signature:
(for printed version)

2025-08-28

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:

DEKRA Testing and Certification GmbH
Certification Body
Dinnendahlstrasse 9
44809 Bochum
Germany





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Manufacturer: **MSA EUROPE GmbH**
Schlüsselstraße 12
8645 Rapperswil-Jona
Switzerland

Manufacturing
locations: **MSA EUROPE GmbH**
Schlüsselstraße 12
8645 Rapperswil-Jona
Switzerland

MSA Produktion Deutschland GmbH
Thiemannstrasse 1
12059 Berlin
Germany

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 Report:

[DE/BVS/ExTR21.0034/02](#)

Quality Assessment Report:

[DE/BVS/QAR06.0018/20](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

General product information:

The repeater is part of the M1 SCBA system and is designed to improve the range of telemetry monitoring in the field. The repeater is placed by the emergency services e.g. in buildings or tunnels at places where a direct connection between equipment carrier and command and control centre becomes critical.

The repeater has a deployable antenna, which is attached to a gooseneck about 60 cm above the placement site and ensures radio communication.

The device has an on and off button for quick operation in the field. The button has indicator LEDs to show operating states. The unit also has four red and green signal lights on the sides of the unit to indicate the location of the unit.

The device has an optional Bluetooth module for checking and updating the device functions.

The repeater function is realized by a radio module (LRR) with proprietary MSA protocol.

The repeater is powered by the rechargeable and interchangeable MSA M1 BATTERY PACK (IECEx BVS 19.0048).

The battery pack is charged externally from the device in a charge cradle and offers additional capability to be charged via contact pins on the backside of the pack while in the device. Any charging is only permitted outside of any hazardous area.

Note: It is permitted to use the M1 BATTERY PACK with label containing the Warning:

"USE ONLY WITH MSA M1 APPROVED EQUIPMENT"

Parameter

Ambient temperature range

$-30\text{ °C} \leq T_{\text{amb}} \leq +60\text{ °C}$

SPECIFIC CONDITIONS OF USE: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Minor changes to the electronics and construction.