



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 13.0057X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 3	Issue 2 (2021-01-13)
Date of Issue:	2023-11-28		Issue 1 (2016-03-21)
Applicant:	PARAT Solutions GmbH Gewerbegebiet Manzing 7 94065 Waldkirchen Germany		Issue 0 (2013-07-19)
Equipment:	Headlamp type HL-P1		
Optional accessory:			
Type of Protection:	Intrinsic Safety "i"		
Marking:	Ex ib IIB T4 Gb		

Approved for issue on behalf of the IECEx
Certification Body:

Dr Franz Eickhoff

Position:

**Senior Lead Auditor, Certification Manager and officially
recognised expert**

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:

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





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Manufacturer: **PARAT Solutions GmbH**
Gewerbegebiet Manzing 7
94065 Waldkirchen
Germany

Manufacturing
locations: **PARAT Solutions GmbH**
Gewerbegebiet Manzing 7
94065 Waldkirchen
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/ExTR13.0083/02](#)

Quality Assessment Report:

[DE/BVS/QAR14.0001/08](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Subject and Type (unchanged)

Headlamp type HL-P1

Description (unchanged)

The headlamp type HL-P1 is a battery supplied portable device. The head lamp type HL-P1 serves as electrical lighting for the application in hazardous areas with explosive gas atmospheres (gas group IIB, EPL Gb).

The headlamp type HL-P1 is supplied by 4 primary cells (AAA) which shall be changed only outside of the hazardous area. The head lamp type HL-P1 shall not be opened in hazardous areas.

The enclosure is constructed from non-conducting polycarbonate.

Thermal Parameters (unchanged)

Ambient temperature range $-20\text{ }^{\circ}\text{C} \leq T_a \leq +40\text{ }^{\circ}\text{C}$

SPECIFIC CONDITIONS OF USE: YES as shown below:

Only the batteries listed in the operating instructions may be used.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Change of applicant's and manufacturer's name and location, the CoC was linked to an updated QAR