



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 BVS 13.0057X issue No.:0 Certificate history:

Status: **Current**

Date of Issue: **2013-07-19** Page 1 of 3

Applicant: **PARAT GmbH & Co. KG**
Schachtlau 3-4
94089 Neureichenau
Germany

Electrical Apparatus: **Headlamp type HL-P1**
Optional accessory:

Type of Protection: **Equipment protection by intrinsic safety "i"**

Marking: Ex ib IIB T4 Gb

Approved for issue on behalf of the IECEx
Certification Body:

H.-Ch. Simanski

Position:

Head of Certification Body

Signature:
(for printed version)

Date:

19. 7. 2013

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:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany

DEKRA
DEKRA EXAM GmbH



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Manufacturer: **PARAT GmbH & Co. KG**
Schachtlau 3-4
94089 Neureichenau
Germany

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:
[DE/BVS/ExTR13.0083/00](#)

Quality Assessment Report:
[GB/ITS/QAR09.0011/02](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

General product information:

Subject and Type

Headlamp type HL-P1

Description

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

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

CONDITIONS OF CERTIFICATION: YES as shown below:

Only the following battery types are permitted:

- Duracell Plus, LR03/AAA
- Energizer Mini Stilo (Classic E92), LR03/AAA
- Varta Consumer Longlife Extra, LR03/AAA
- Varta High Energy, LR03/AAA
- Energizer Ultra, LR03/AAA