



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 12.0043X

Issue No: 1

Certificate history:

Issue No. 1 (2016-05-09)

Issue No. 0 (2012-10-30)

Status: **Current**

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Date of Issue: **2016-05-09**

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

Equipment: **Torch light type PX1***

Optional accessory:

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

Marking: Type PX1 XAG LED 123
Ex ib IIC T4 Gb
Ex ib III C T105°C Db IP68

Type PX1 XAG Xenon 122
Ex ib e IIC T4 Gb
Ex ib III C T105°C Db IP64

Type PX1 PC LED 123
Ex ib IIB T4 Gb
Ex ib III C T105°C Db IP68

Type PX1 PC Xenon 122
Ex ib e IIB T4 Gb

*Approved for issue on behalf of the IECEx
Certification Body:*

Dr. F. Eickhoff

Position:

Deputy Head of Certification Body

*Signature:
(for printed version)*

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:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany

 **DEKRA**
On the safe side.



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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 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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-7 : 2006-07 Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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/ExTR12.0081/01](#)

Quality Assessment Report:

[DE/BVS/QAR14.0001/01](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Subject and type

Torch light type PX1 *

The asterisk in the type designation represents different enclosure materials and lamp modules as follows:

Type	application
PX1 XAG LED 123	Gas group IIC and Dust group IIIC
PX1 XAG Xenon 122	Gas group IIC and Dust group IIIC
PX1 PC LED 123	Gas group IIB and Dust group IIIC
PX1 PC Xenon 122	Gas group IIB

Description

The torch light type PX1 * is a series of handheld torches fitted with either an LED or a Xenon lamp module, powered by 4 AA cells.

The enclosure is constructed from conductive polycarbonate for use in gas group IIC designated model number PX1 XAG * and non-conducting polycarbonate for use in gas group IIB designated model number PX1 PC *.

All variants are certified for use in explosive gas atmospheres, but only the handheld torches type PX1 XAG * and type PX1 PC LED 123 can also be used in explosive dust atmospheres.

Thermal Parameters

Ambient temperature range

With LED lamp module $-20\text{ °C} \leq T_a \leq +40\text{ °C}$

With Xenon lamp module $0\text{ °C} \leq T_a \leq +40\text{ °C}$

SPECIFIC CONDITIONS OF USE: YES as shown below:

It is allowed to use only the batteries listed in the manufacturer's instructions.



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

Two new battery types were assessed. See "Conditions of Use".