

CERTIFICATE

(1) EC-Type Examination

(2) **Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC**

(3) EC-Type Examination Certificate Number: **DEKRA 12ATEX0193 X** Issue Number: **1**

(4) Equipment: **Intrinsically Safe Handlamp Type FlashLED-Ex**

(5) Manufacturer: **GIFAS Electric GmbH**

(6) Address: **Borsigstraße 9, 41469 Neuss, Germany**

(7) This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment 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 test report number 215638400.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0 : 2009

EN 60079-11 : 2012

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment shall include the following:



II 2 G Ex ib IIC T4 Gb
II 2 D Ex ib IIIC T135 °C Db

This certificate is issued on 9 November 2012 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

DEKRA Certification B.V.

C.G. van Es
Certification Manager

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(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate DEKRA 12ATEX0193 X**

Issue No. 1

(15) **Description**

Microcontroller controlled intrinsically safe handlamp Type FlashLED-Ex.

The enclosure of the handlamp provides a degree of protection of IP5X in accordance with EN 60529.

Ambient temperature range -20 °C to +50 °C.

Electrical data

Supply: factory replaceable battery pack consisting of two rechargeable 3,7 V, 3200 mAh Lithium Polymer cells, type SLPB 8043128H, manufactured by Kokam.

The battery may only be recharged outside the hazardous area with the associated battery charger (max. charge current 3200 mA), specified as extra low-voltage circuit (SELV).
 $U_m = 50 \text{ V}$.

Installation instructions

The instructions provided with the equipment shall be followed in detail to assure safe operation.

(16) **Test Report**

No. 215638400.

(17) **Special conditions for safe use**

The maximum surface temperature $T_{135} \text{ °C}$ applies to a maximum dust layer thickness of 5 mm.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 215638400.