

EC TYPE-EXAMINATION CERTIFICATE

- (1) **EC TYPE-EXAMINATION CERTIFICATE**
- (2) Equipment or Protective System intended for use in potentially explosive atmospheres - **Directive 94/9/EC**
- (3) EC-Type Examination Certificate Number



TÜV 99 ATEX 1409

- (4) Equipment or Protective System: **Explosion proofed torch type Lite-Ex***
- (5) Manufacturer: **ECOM Rolf Nied GmbH**
- (6) Address: **Industriestraße 2
D-97959 Assamstadt**

- (7) This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate.
- (8) The TÜV Hannover/Sachsen-Anhalt e.V., TÜV Certification Body N° 0032 in accordance with Article 9 of the Council Directive of the EC of March 23, 1994 (94/9/EC), certifies that this equipment or protective system has been found to comply with the Basic 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 the confidential report N° 99/PX06690.
- (9) Compliance with the Basic Health and Safety Requirements has been assured by compliance with:

EN 50 014 : 1997

EN 50 019:1994

EN 50 020 : 1994

- (10) If the sign "X" is placed after the certification number, it indicates that the equipment or protective system 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 and construction of the specified equipment or protective system according to Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and placing on the market of this equipment or protective system.
- (12) The marking of the equipment or protective system must include the following:

 **II 2 G EEx e ia IIC T4**

TÜV Hannover/Sachsen-Anhalt e.V.
TÜV CERT-Zertifizierungsstelle
Am TÜV 1
D-30519 Hannover

Hannover, 1999-04-09


Head of the
Certification Body



(13) **SCHEDULE**

(14) **EC-TYPE EXAMINATION CERTIFICATE N° TÜV 99 ATEX 1409**

(15) Description of equipment or protective system

The torches type Lite-Ex* are lights with adjustable focusing for the use in the close-up area and may be used in the explosion hazardous area.

Electrical data

Supply..... in type of protection "Intrinsic Safety" EEx ia IIC
(internal battery)

The batteries and lamps to be used in dependence of the type of the torch have to be taken from the following table:

type	Lite-Ex15	Lite-Ex20	Lite-Ex23	Lite-Ex25
number of cells	2 pcs.	3 pcs.	2 pcs.	2 pcs.
battery	LR6 according to IEC	LR6 according to IEC	LR14 according to IEC	LR20 according to IEC
lamp	AMPERCELL AC2640/BB	AMPERCELL AC2300/BB	AMPERCELL AC2C/2D/BB	AMPERCELL AC2C/2D/BB

The batteries may only be replaced outside of the explosive hazardous area (information plate).

(16) Test documents are listed in the test report No. 99/PX06690.

(17) Special condition for safe use

none

(18) Basic Health and Safety Requirements

no additional ones

1st ADDENDUM
to
EC-Type Examination Certificate No. TÜV 99 ATEX 1409

Company: ECOM Rolf Nied GmbH
Industriestraße 2
D-97959 Assamstadt

The flashlights in the Lite-Ex* range may be manufactured in the future according to the documents listed in the inspection report.

Electrical data

Supply in ignition protection class Intrinsic Safety EEx ia IIC
(internal battery)

The batteries and bulbs that are to be used subject to the flashlight type must be inferred from the following table:

Type	Lite-Ex15	Lite-Ex20	Lite-Ex23	Lite-Ex25
Number of cells	2-pce.	3-pce.	2-pce.	2-pce.
Battery	LR6 in accordance with IEC	LR6 in accordance with IEC	LR14 in accordance with IEC	LR20 in accordance with IEC
Bulb	AMPERCELL AC2640/BB	AMPERCELL AC2300/BB	AMPERCELL AC2C/2D/BB	AMPERCELL AC2C/2D/BB

(16) Test documents are listed in inspection report No. 99/PX15090.

(17) Special conditions

none

(18) Fundamental health and safety requirements

no additional requirements

TÜV Hannover/Sachsen-Anhalt e.V.
TÜV CERT-Zertifizierungsstelle
Am TÜV 1
D-30519 Hannover

Hanover, 30.06.1999

Head

2nd ADDENDUM

to

EC-Type Examination Certificate No. TÜV 99 ATEX 1409

Company: ECOM Rolf Nied GmbH
Industriestraße 2
D-97959 Assamstadt

The flashlights in the Lite-Ex* range may be manufactured in the future according to the documents listed in the inspection report.

Electrical data

Supply in ignition protection class Intrinsic Safety EEx ia IIC
(internal battery)

The batteries and bulbs that are to be used subject to the flashlight type must be inferred from the following table:

Type	Lite-Ex15	Lite-Ex20	Lite-Ex23	Lite-Ex25
Number of cells	2-pce.	3-pce.	2-pce.	2-pce.
Battery	LR6 in accordance with IEC	LR6 in accordance with IEC	LR14 in accordance with IEC	LR20 in accordance with IEC
Bulb	AMPERCELL AC2640/BB	AMPERCELL AC2300/BB	AMPERCELL AC2C/2D/BB, KPR102 Sonca, KPR104 Phillips	AMPERCELL AC2C/2D/BB

(16) Test documents are listed in inspection report No. 01 PX 04810.

(17) Special conditions

none

(18) Fundamental health and safety requirements

no additional requirements

TÜV Hannover/Sachsen-Anhalt e.V.
TÜV CERT-Zertifizierungsstelle
Am TÜV 1
D-30519 Hannover

Hanover. 13.01.2001

3rd ADDENDUM
to
EC-Type Examination Certificate No. TÜV 99 ATEX 1409

Company: *ecom instruments GmbH*
Industriestraße 2
D-97959 Assamstadt

formerly ECOM Rolf Nied GmbH
Industriestraße 2
D-97959 Assamstadt

The flashlights in the Lite-Ex* range may be manufactured in the future according to the documents listed in the inspection report.

The changes relate to the mechanical configuration.

The electrical data and all other details remain unchanged for this addendum.

Test documents are listed in inspection report No. 03 YEX 550275

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D-30519 Hannover
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Hanover, 02.01.2003

Head