



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 LOM 23.0007X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2024-04-04

Applicant: **Adaro Tecnología, S.A.**
Parque Científico Tecnológico - Calle Jimena Fernandez de la Vega, 38 - Edificio Adaro,
33203 Gijón - Asturias
Spain

Equipment: **Flashlight/Handtorch types ADALIT L-90***

Optional accessory:

Type of Protection: **Intrinsic safety "ia" and "ib"**

Marking: Ex ia IIC T4 Ga
Ex ib IIIC T135 °C Db
Ex ia I Ma

Approved for issue on behalf of the IECEx
Certification Body:

Javier García Torrent

Position:

Certification Committee

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:

Laboratorio Oficial J.M. Madariaga (LOM)
Fundación General Universidad Politécnica de Madrid
Calle Eric Kandel, 1
28906 Getafe (Madrid)
Spain





IECEX Certificate of Conformity

Certificate No.: **IECEX LOM 23.0007X**

Page 2 of 3

Date of issue: 2024-04-04

Issue No: 0

Manufacturer: **Adaro Tecnología, S.A.**
Parque Científico Tecnológico - Calle Jimena Fernandez de la Vega, 38 - Edificio Adaro,
33203 Gijon - Asturias
Spain

Manufacturing
locations:

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 Reports:

[ES/LOM/ExTR23.0008/00](#)

[ES/LOM/ExTR23.0008/01](#)

Quality Assessment Report:

[GB/EXV/QAR18.0008/04](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX LOM 23.0007X**

Page 3 of 3

Date of issue: 2024-04-04

Issue No: 0

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Flashlight/Hand torch with an antistatic plastic casing containing rechargeable battery or non-rechargeable cells, electronic control circuit and LED-based light sources. It has a cover for accessing the batteries.

The variants L-90, L-90POWER, L-90e, L-90R, L-90RPOWER and L-90Re are suitable for gas explosive atmospheres of Group IIC, dust explosive atmospheres of Group IIIC and Group I.

The variants L-90B, L-90BPOWER, L-90RB and L-90RBPOWER are only intended for gas explosive atmospheres of Group IIC.

Parameters of the type of protection when incorporating rechargeable batteries, Um: 12V

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Batteries cannot be charged or replaced in hazardous area
- Batteries may only be of the type and brand indicated by the manufacturer
- When used in group I the equipment can only be in locations with low risk of impact.

Annex:

[IECEX LOM 23.0007X_Annex.pdf](#)



IECEX Certificate of conformity



Certificate No: IECEX LOM 23.0007X

Issue No: 0
Page: 1 of 1

Annex

Technical data:

Battery primary cells are LR6 (AA) size alkaline batteries.

Battery secondary cells are Li-ION.

Variants

Optics type	With alkaline primary elements		With secondary cells LI-ION	
	Yellow color	Black color (*)	Yellow color	Black color (*)
Standard	L-90	L-90B	L-90R	L-90RB
Power	L-90POWER	L-90BPOWER	L-90RPOWER	L-90RBPOWER
Essential	L-90e	-	L-90Re	-

(*) Variants in black color are not suitable for group III

Models with Standard and Power optics have two main LEDs, one main LED in the case of Essential optic