

LABORATORIO OFICIAL J. M. MADARIAGA



EU-TYPE EXAMINATION CERTIFICATE

- 2 Equipment or protective systems Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 3 EU-Type Examination Certificate Number LOM 21ATEX1057X Issue: 2
- 4 Product Flashlight/Handtorch

Types ADALIT L-90*

- 5 Manufacturer ADARO TECNOLOGIA S. A.
- 6 Address Jimena Fdez. de la Vega, 38

Parque Científico y Tecnológico de Gijón – Edificio Adaro Tecnología

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SPAIN

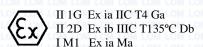
- 7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- 8 Laboratorio Oficial J.M. Madariaga (LOM), Notified Body No. 0163, in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products 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 LOM 23.335V

- 9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
 - Standards EN IEC 60079-0:2018 EN 60079-11:2012

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

- If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
- This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- 12 The marking of the product shall include the following:



Getafe,

Electronically signed by:

Certification Committee

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13 ANEXO

14 <u>EU-Type Examination Certificate Number</u>: LOM 21ATEX1057X Issue: 2

15 Description of product

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.

Battery primary cells are LR6 (AA) size alkaline batteries. Battery secondary cells are Li-ION.

Variants

M LOM LOM LON	With alkaline p	primary elements	With secondary cells LI-ION		
Optics type	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	LOW FOW FOR TOW FOW F	L-90Re	W FOW FOW FOW FOW FO	

^(*) 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

Parameters of the type of protection for rechargeable variant: Um: 12 V

Changes in this issue

- Redesign of the enclosure
- Group III is included for explosive dust environments, except L-90B* variants.
- Group I is included.

16 <u>Report</u> LOM 23.335V

17 Specific conditions of use

- Batteries cannot be charged or replaced in hazardous area
- Batteries and alkaline cells 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.

18 <u>Essential health and safety requirements</u>

Met by compliance with the requirements mentioned in item 9.

19 Drawings and Documents

Number OM LOW LOW LO	Sheets	Issue	Date	Description ON LOW LOW LOW LOW LOW LOW
L-90 Family	35	02	2023-10-31	*Technical description
524	M LCM LO	Е	2016-04-11	LEDs electric schematic
527 ON ON ON ON O	м цем цо	02	2016-04-11	LEDs PCB
559 ON LOW LOW LOW LO	M TOM TO	01	2016-12-21	LEDs electric schematic
560	и гом го	01	2016-09-27	LEDs PCB
798	M LCM LO	01	2022-01-27	Serial number label
800	м цам цо	06	2023-11-02	*Threaded cover drawing
801 OM LOM LOM LOM LO	M TOM TO	04	2023-11-02	*Main body drawing
802	w rolu ro	03	2021-07-13	Hook drawing
803	M LCM LO	05	2023-11-02	*Bottom cover drawing
810 LOW LOW LOW LOW LO	и тсји го	04	2023-11-02	*Threaded cover drawing
812	M TOM TO	04	2023-11-02	*Main body drawing
815	M LOW LO	07	2023-05-19	Electric schematic
816	w (4, 10	06	2022-09-09	Control circuit PCB



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3 ANEXO

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19 <u>Drawings and Documents</u> (continued)

Number	Sheets	Issue	Date	Description
817 LOW LOW LOW	OM LOW LOW LO	00	2020-07-21	LED electric schematic
818	OW FOW FOW FO	00	2019-11-28	LED PCB
819	ON LOW LOW LO	04	2023-11-02	*Main body drawing
820	ом том тси то	05	2023-07-03	*Marking drawing
820A	OM LOW LOW LO	05	2023-10-05	*Marking drawing OM LOW LOW LOW LOW LOW
821	OW FOW FOW FO	05	2023-07-03	*Marking drawing
821A	ON LOW LOW LO	05	2023-10-05	*Marking drawing
821B	ом том годи го	02	2023-07-03	*Marking drawing
822	OW FOM FOW FO	02	2023-07-03	*Marking drawing LOM LOM LOM LOM LOM LOM
822A	TOW TOW TOW TO	03	2023-10-05	*Marking drawing
823	OM LOW LOW LO	02	2023-07-03	*Marking drawing
823A	ом гом го <mark>м го</mark>	03	2023-10-05	*Marking drawing
823B	TOW TOM TOM TO	02	2023-07-03	*Marking drawing OM COM COM COM COM COM
837	TOW TOW TOW TO	00	2020-11-05	Auxiliary LEDs electric schematic
838	OW TOW TOW TO	00	2020-11-17	Auxiliary LEDs PCB
1009 OM LOM LOM	ом том го <mark>ј</mark> и го	02	2022-11-24	Battery electric schematic
1014	TOW TOM TOM TO	00	2022-11-25	Battery electric schematic
EP-DF-37.3	TOW TOW TOW TO	5	2023-07	*Instructions manual
EP-DF-38.3	OM LOW LOW LO	5	2023-07	*Instructions manual
EP-DF-41.3	OM LOW LOW LO	10610	2023-10	*Instructions manual on the control of the control
EP-DF-42.3	OW FOW FOW FO	6	2023-10	*Instructions manual
EP-DF-43.3	ON LOW LOW LO	5	2023-07	*Instructions manual

Note: An * is included before the title of documents that are new or revised.

20 History of variation

Issue	Date	Report number	Description Com		
0	2021-10-27	LOM 20.424J	First certificate		
1 2023-08-10 LOM 23.280N		LOM 23.280N	- The standard EN 60079-28:2015 is not in the scope. The marking is changed - Updates of electronic circuits and PCB LIFE versions with LiFePo4 battery are not included.		