




1	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: 0
4	Product	Flashlight/Handtorch Types ADALIT L-90*	
5	Manufacturer	ADARO TECNOLOGIA S. A.	
6	Address	Parque Científico y Tecnológico de Gijón – Edificio Adaro Tecnología 33203 – Gijón – Asturias SPAIN	
7	This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.		
8	The 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 20.424J		
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 EN 60079-28:2015 Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.		
10	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.		
11	This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the Directive 2014/34/EU. 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:  II 1G Ex ia op is IIC T4 Ga		
		Getafe, <i>Electronically signed by:</i>	
		Certification Committee	

RCPCR 25.7/6





LABORATORIO OFICIAL J. M. MADARIAGA

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14 EU-Type Examination Certificate Number **LOM 21ATEX1057X** **Issue: 0**

15 Description of product

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

Primary cells are LR6 (AA) size alkaline batteries
The battery consists on Li-ION or LiFePo4 secondary cells.

Variants

Optics type	With alkaline primary elements		With secondary cells		
	Yellow color	Black color	Li-ION battery		LiFePo4 battery
			Yellow color	Black color	Yellow color
Standard	L-90	L-90B	L-90R	L-90RB	L-90LIFE
Power	L-90POWER	L-90BPOWER	L-90RPOWER	L-90RBPOWER	L-90POWERLIFE
Essential	L-90e	-	L-90Re	-	-

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

Parameters of the type of protection: Um: 12V

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17 Specific conditions of use

- Changing of the battery can only be done in a non-classified area
- The batteries may only be replaced by those indicated in the manufacturer's manual. Batteries of different types should not be combined, nor should used batteries be mixed with new ones.
- Batteries can only be replaced in a non-classified area

18 Essential health and safety requirements

Essential Health and Safety Requirements (EHSRs) are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Sheets	Issue	Date	Description
L-90 Family	37	06	2021-10-08	Technical description
524	1	E	2016-04-11	LEDs electric schematic
527	1	02	2016-04-11	LEDs PCB
559	1	01	2016-12-21	LEDs electric schematic
560	1	01	2016-09-27	LEDs PCB
800	1	02	2020-11-11	Threaded cover drawing
801	1	03	2021-07-13	Main body drawing
802	1	03	2021-07-13	Hook drawing
803	1	03	2021-07-13	Bottom cover drawing
810	1	01	2020-11-11	Threaded cover drawing
812	1	02	2021-07-13	Main body drawing
813	1	02	2021-07-14	Main body drawing
815	1	05	2021-10-08	Electric schematic
816	1	05	2021-10-08	Control circuit PCB



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19 Drawings and Documents (continued)

Number	Sheets	Issue	Date	Description
817	1	00	2020-07-21	LED electric schematic
818	1	00	2019-11-28	LED PCB
819	1	01	2021-07-14	Main body drawing
820	1	02	2021-09-30	Marking drawing
820A	1	02	2021-09-30	Marking drawing
821	1	02	2021-09-30	Marking drawing
821A	1	02	2021-09-30	Marking drawing
822	1	02	2021-09-30	Marking drawing
823	1	02	2021-09-30	Marking drawing
837	1	00	2020-11-05	Auxiliary LEDs electric schematic
838	1	00	2020-11-17	Auxiliary LEDs PCB
1007	1	02	2021-02-18	Battery electric schematic
1008	1	00	2019-11-04	Battery electric schematic
1009	1	01	2021-07-14	Battery electric schematic
1010	1	00	2020-07-17	Battery electric schematic
EP-DF-37.3	1	0	2021-09	Instructions manual
EP-DF-38.3	1	0	2021-09	Instructions manual
EP-DF-40.3	1	0	2021-09	Instructions manual
EP-DF-41.3	1	0	2021-09	Instructions manual
EP-DF-42.3	1	0	2021-09	Instructions manual
EP-DF-43.3	1	0	2021-09	Instructions manual