



(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 nr **LOM 12ATEX2004**

(4) Equipment or protection system Torch
Type L-5_

(5) Manufacturer Adaro Tecnología, S.A.

(6) Address Jimena Fernández de la Vega, 38
Parque Científico Tecnológico de Gijón (Edificio Adaro)
33203 GIJÓN (Asturias)
SPAIN

(7) This equipment or protective system 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 number 0163 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament of 23 March 1994, certifies that this equipment or protective system 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 report nr. **LOM 11.374 MP**


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

- Standards **EN 60079-0:2009** **EN 60079-11:2007**

(10) If the sign X is placed after the certificate 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 this specified equipment or protective system in accordance with the Directive 94/9/EC. Further requirements of the Directive apply to the manufacture and supply of this equipment or protective system. These are not covered by this certificate.

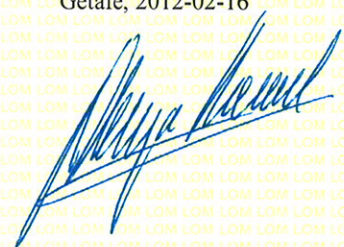
(12) The marking of the equipment or protective system shall include the following:

 II 1GD Ex ia IIC T4 Ga
Ex ia IIIC T85°C Da



Getafe, 2012-02-16


Carlos Fernández Ramón
DIRECTOR OF THE LABORATORY


Angel Vega Remesal
Head of the ATEX area

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LABORATORIO OFICIAL J. M. MADARIAGA

(A1) SCHEDULE

(A2) EC-Type Examination Certificate nr: LOM 12ATEX2004

(A3) Description of equipment or protective system

Head torch made of thermoplastic antistatic material with 3W LED lamp and powered by rechargeable or non-rechargeable batteries. In the variant with rechargeable battery charging can only be done in a safe area, having external contacts for this proposal.

This torch is manufactured in two variants

L-5	Powered by 4 LR-03 alkaline batteries of 1.5 V
L-5R	Powered by a rechargeable Li-ION Polymer battery of 3.7 V / 2x480 mAh

The torch has a degree of protection IP67 according to EN 60529

(A4) Test report nr. LOM 11.374 MP

(A5) Special conditions for safe use

None

(A6) Individual tests

None

(A7) Essential Health and Safety Requirements

Explosion safe requirements are covered by application of the standards indicated in page 1/2 of this certificate.

(A8) Descriptive documents

	Rev.	Date
- Technical description:	00	2011-06-30
- Drawings n°:		
PCB.L52F	F	2011-06-26
PCB.L5R	C	2011-06-26
L5.1	4	2011-06-02
L5.2	4	2011-06-02
L.01R	1	2012-02-07





(1) **EC-TYPE EXAMINATION CERTIFICATE SUPPLEMENT**

(2) Equipment or protective system intended for use in potentially explosive atmospheres
Directive 94/9/EC

(3) Supplement nr. 1 to EC-Type Examination Certificate number **LOM 12ATEX2004**

(4) Equipment or protection system Torch
Type L-5_

(5) Manufacturer Adaro Tecnología, S.A.

(6) Address Jimena Fernández de la Vega, 38
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33203 GIJÓN (Asturias)
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(7) Test report nr.: **LOM 13.178 WP**

(8) Variations included in this certificate

- To modify the layout of the printed circuit board and update some electronic components
- Assessment update to the standards EN 60079-0:2009, EN 60079-11:2012 and EN 60079-26:2007

(9) Changes in marking

None

(10) Changes in the special conditions for a safe use

None

(11) Descriptive documents

	Rev.	Date
- Drawings nr.: L.5	I	2013-03-04
L.5R	D	2013-03-27
PCB.52I 0	I	2013-06-19
PCB.06E	H	2013-06-19

Getafe, 2013-06-19



Carlos Fernández Ramón
Certification Committee Responsible

This supplement must be an inseparable part together with the base certificate **LOM 12ATEX2004**

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