



1. **EC-TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use  
in Potentially explosive atmospheres  
Directive 94/9/EC**

3. Reference: **VTT 12 ATEX 004X Issue 1**

4. Equipment: **Handlamp**

Certified type: **MICA IL-80 ATEX LED**

5. Manufactured by: **Mica Elektro Oy Ltd**

6. Address: **Höyläämötie 11 A  
FI-00381 HELSINKI  
Finland**

7. This equipment or protective system and any acceptable variations thereto is specified in the schedule and possible supplement(s) to this Certificate and the documents therein referred to.

8. VTT, notified body number 0537, in accordance with Article 9 of the Council Directive 94/9/EC of 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 system intended for use in potentially explosive atmospheres given in Annex II to the Directive

The examination and test results are recorded in confidential report no. VTT-S-01971-12.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with the standards:

**EN 60079-0 (2009)**  
**EN 60079-12 (2012)**  
**EN 60079-28 (2007)**  
**EN 60079-31 (2009)**



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, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. This certificate does not cover these.
12. The marking of the equipment or protective system shall include the following:



**II 2 G**  
**II 2 D**

**Ex e ib op is IIC T4 Gb**  
**Ex tb IIIC T135°C Db**

Espoo, 29.01.2013

VTT Expert Services Ltd



Kari Koskela  
Expert



Martti Siirola  
Senior Expert



13. **Schedule**

14. **EC-TYPE EXAMINATION CERTIFICATE VTT 12 ATEX 004X Issue 1**

15. Description of Equipment

Rechargeable hand lamp type MICA IL-80 ATEX LED is a portable lighting device. The hand lamp is equipped battery unit with five sealed Metal Hydride rechargeable cells (5 x 1,2 V, 3700 mAh or 4500 mAh) and an electrical fuse. The light source of the lamp is L200 Ex LED (made by Mica Elektro). The housing of the light unit is of anti-static plastic. The light unit is equipped with a switch.

15.1 Documents

Name of the document	Document no.	Revision
List of current documents: 'IL-80 ATEX LED hyväksyntädokumentit'		20.12.2012
Mica L200Ex, Part list	002160_X	16.10.2012
Product specification Mica L200Ex LED bulb	03233_2_X	16.10.2012
Mica L200Ex, circuit diagram	00218_X	25.11.2011
Mica L200Ex, PCB layout	00219_X	25.11.2011

16. Report No. VTT-S-01719-12

17. Special conditions for safe use:

1. The hand lamp must be charged according to the manufactures recommendations with a ILC charging unit.
2. The hand lamp must not be opened or charged in a hazardous area.
3. The fastening ring locking ring of the lens department shall be fastened according to the manufacturer's instructions.

18. Essential Health and Safety Requirements

Met by compliance with the standards referred in point 9.



Certificate history:

Issue	Date	Report No.	Comment
-	09.03.2012	VTT-S-01719-12	Prime certificate
1	29.01.2013	-	Addition of a new led bulb type, a new reflector type and document list revisions.

Espoo, 29.01.2013

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