

# (1) EC-TYPE-EXAMINATION CERTIFICATE

(2) Equipment and Protective Systems intended for use in  
Potentially Explosive Atmosphere - Directive 94/9/EC

(3) EC-Type-Examination Certificate Number



## TÜV 10 ATEX 7879

(4) Equipment: **Hand Lamp** Type: **IL-800 ZONE 1**

(5) Manufacturer: **Mica Elektro Oy Ltd.**

(6) Address: **P.O.B. 42 00381 Helsinki, Finland**

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The TÜV Zertifizierungsstelle for ex-protected products of TÜV Rheinland Industrie Service GmbH, TÜV Rheinland Group, notified body No. 0035 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies this equipment 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 atmosphere, given in Annex II to the Directive.  
The examination and test results are recorded in the confidential report 557/Ex879.00/10

(9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

**EN 60079-0: 2009**

**EN 60079-11: 2007**

**EN 60079-31: 2009**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment 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 specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.

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



**II2G**

**Ex ib IIC T4 Ga**



**II2D**

**Ex tb IIIC T100°C IP67 Db**

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2011-07-20

Dipl.-Ing. Heinz Farke

This EC-type Examination Certificate without signature and stamp shall not be valid  
This EC-type-examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the  
TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group Am Grauen Stein 51105 Köln  
Tel. +49 (0) 221 806-0 Fax. + 49 (0) 221 806 114

(13) Annex

(14) **EC - Type Examination Certificate**  
**TÜV 10 ATEX 7879**

(15) Description of equipment

The hand lamp type IL-800 ZONE 1 is a hand held equipment for use in areas defined as zone 1 or zone 21.

The only available contacts are the charging contacts. The charging has to be done by use of Mica specified chargers. The charging is not allowed inside zones.

Technical Data

Voltage:  $U_m = 24.6 \text{ V DC}$   
Ambient temperature:  $-20^\circ\text{C} = T_a = 40^\circ\text{C}$

(16) Test-Report No. 557 / Ex 879.00/10

(17) Special Conditions for safe use

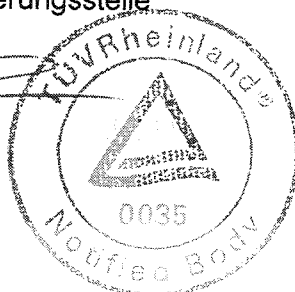
None

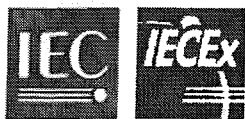
(18) Basic Safety and Health Requirements Covered by the afore mentioned standards.

TÜV Rheinland Zertifizierungsstelle

Cologne, 2011-07-20


  
Dipl.-Ing. Heinz Farke





# IECEx Certificate of Conformity

**INTERNATIONAL ELECTROTECHNICAL COMMISSION**  
**IEC Certification Scheme for Explosive Atmospheres**  
for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:	IECEx TUR 11.0009	issue No.:	0	Certificate history:	
Status:	Current				
Date of Issue:	2011-07-20		Page 1 of 3		
Applicant:	Mica Elektro Oy Ltd. P.O.B. 42 00381 Helsinki Finland				
Electrical Apparatus: Optional accessory:	Hand lamp IL-800 ZONE 1				
Type of Protection:	ib ; tb				
Marking:	Ex ib IIC T4 Gb Ex tb IIIC T100°C IP67 Db				
Approved for issue on behalf of the IECEx Certification Body:		Dipl.-Ing. Heinz Farke			
Position:		Deputy of ExCB			
Signature: (for printed version)					
Date:		<u>2011-07-20</u>			

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 the Official IECEx Website.

Certificate issued by:

**TUV Rheinland Industrie Service GmbH**  
**Am Grauen Stein**  
51105 Cologne  
Germany





# IECEx Certificate of Conformity

Certificate No.: IECEx TUR 11.0009

Date of Issue: 2011-07-20

Issue No.: 0

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Manufacturer: **Mica Elektro Oy Ltd.**  
P.O.B. 42  
00381 Helsinki  
Finland

Manufacturing location(s):

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 electrical apparatus 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:

<b>IEC 60079-0 : 2007-10</b> Edition: 5	Explosive atmospheres - Part 0: Equipment - General requirements
<b>IEC 60079-11 : 2006</b> Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-31 : 2008</b> Edition: 1	Explosive atmospheres -- Part 31: Equipment dust ignition protection by enclosure 't'

*This Certificate does not indicate compliance with electrical 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 Report:

DE/TUR/ExTR11.0009/00

### Quality Assessment Report:

FI/VTT/QAR10.0004/00



# IECEx Certificate of Conformity

Certificate No.: IECEx TUR 11.0009

Date of Issue: 2011-07-20

Issue No.: 0

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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The hand lamp type IL-800 ZONE 1 is a handheld equipment for use in areas of zone 1 or zone 21. The only available contacts are the charging contacts. The charging has to be done by use of Mica specified chargers. The charging is not allowed inside zones.  
 $U_m \leq 24.6 \text{ V}$

**CONDITIONS OF CERTIFICATION: NO**