

(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 7878

(4) Equipment: **Hand Lamp** Type: **IL-800 ZONE 0**

(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/Ex878.00/10

(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:



II1G

Ex ia 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 7878

(15) Description of equipment

The hand lamp type IL-800 ZONE 0 is a hand held equipment for use in areas defined as zone 0 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: $-20 \text{ °C} = T_a = 40 \text{ °C}$

(16) Test-Report No. 557 / Ex 878.00/10


(17) Special Conditions for safe use

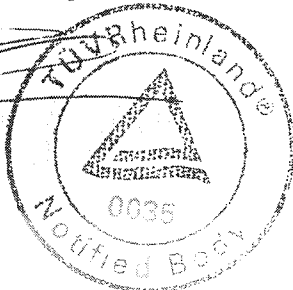
None

(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

Certificate No.: **IECEx TUR 11.0008** 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: **Hand lamp IL-800 ZONE 0**
Optional accessory:

Type of Protection: **ia; tb**

Marking: **Ex ia IIC T4 Ga**
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:

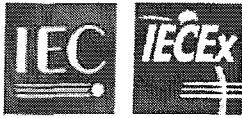
2011-07-20

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 11.0008

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:

IEC 60079-0 : 2007-10 Edition: 5	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-11 : 2006 Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-31 : 2008 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:

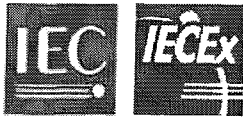
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

DE/TUR/ExTR11.0008/00

Quality Assessment Report:

FI/VTT/QAR10.0004/00



IECEx Certificate of Conformity

Certificate No.: IECEx TUR 11.0008

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 0 is a handheld equipment for use in areas of zone 0 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.

Um \leq 24.6 V

CONDITIONS OF CERTIFICATION: NO