



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 CQM 11.0012U issue No.:1

Certificate history:
Issue No. 1 (2014-11-29)
Issue No. 0 (2011-8-31)

Status: Current

Date of Issue: 2014-11-29 Page 1 of 4

Applicant: **Warom Technology Incorporated Company**
No. 555, Baoqian Road, Jiading District, Shanghai City
Postal code: 201 808
China

Electrical Apparatus: Indicator BD8050...
Optional accessory:

Type of Protection: Flameproof enclosures "d", Increased safety "e"

Marking: Ex de IIC Gb

Approved for issue on behalf of the IECEx Certification Body: Zhang Wei

Position: President

Signature:
(for printed version)

Date:

2014-11-29

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:

China Quality Mark Certification Group Co., Ltd.
No. 33 Zengguang Road, Haidian District,
Beijing City, Postal code: 100037
China





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Manufacturer:

Warom Technology Incorporated Company

No. 555, Baoqian Road, Jiading District, Shanghai City

Postal code: 201 808

China

Additional 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 : 2011 Explosive atmospheres - Part 0: General requirements
Edition: 6.0

IEC 60079-1 : 2007-04 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition: 6

IEC 60079-7 : 2006-07 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition: 4

*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:

CN/CQM/ExTR11.0012/01

Quality Assessment Report:

CN/CQM/QAR07.0003/04



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Descreption of equipment

The indicator is of combined type "d" and "e", comprised of enclosure, cover, inner shell and light-transmitting cover. There are LED and circuit board inside of it. The inner shell and light-transmitting cover are cemented together, and the components of inner shell are encapsulated by epoxy resin. The structure of terminals is of type "e".

Schedule of Limitations

1 Rated voltage: 230V AC /415VAC, 220V DC /380VDC,

12V AC/DC to 36V AC/DC, 48V AC/DC ~110V AC/DC

2 Rated service temperature range: -20°C to +80°C

3 The indicator must be mounted in the enclosures which conform to the requirements of a recognized type of protection as specified in IEC 60079-0:2011, and the degree of protection of that enclosure shall be IP54 at least.

4 When the indicator is installed into the enclosures designed to type of protection increased Safety "e". The creepage distance and clearance between the terminals and other live or earthed parts inside the enclosure shall comply with the requirements of clauses 4.3 and 4.4 and table 1 of IEC 60079-7.

5 Tightening torque of terminal screw is 3.2Nm.

6 An electric strength test, in accordance with IEC 60079-7:2006 clause 7.1 shall be carried out on all units when they have been incorporated into equipment.

CONDITIONS OF CERTIFICATION: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

1. Standards updated to: IEC60079-0:2011, IEC60079-1:2007, IEC60079-7:2006.
2. The product name updated from explosion-proof indicator to indicator.
3. The operating temperature updated from $-20^{\circ}\text{C}\sim+60^{\circ}\text{C}$ to $-20^{\circ}\text{C}\sim+80^{\circ}\text{C}$.