



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 17.0008U

Issue No: 0

Certificate history:

Issue No. 0 (2017-06-02)

Status: Current

Page 1 of 4

Date of Issue: 2017-06-02

Applicant: **Warom Technology Incorporated Company**
No.555, Baoqian Road, Jiading District, Shanghai, 201808
China

Equipment: Indicator HD-**

Optional accessory:

Type of Protection: Ex "db", "tb"

Marking:

Ex db IIC Gb, Ex tb IIIC Db IP66

Approved for issue on behalf of the IECEx
Certification Body:

Ji Xiaodong

Position:

General Manager

Signature:
(for printed version)

Date:

2017-06-07

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](http://www.iecex.com).

Certificate issued by:

China Quality Mark Certification Group Co., Ltd.
No. 33 Zengguang Road, Haidian District,
Beijing City, Postal code: 100048
China





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Certificate No: IECEx CQM 17.0008U Issue No: 0
Date of Issue: 2017-06-02 Page 2 of 4
Manufacturer: Warom Technology Incorporated Company
No.555, Baoqian Road, Jiading District, Shanghai, 201808
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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2013 Edition:2	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:

CN/CQM/ExTR17.0013/00

Quality Assessment Report:

CN/CQM/QAR07.0003/06



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Certificate No: IECEx CQM 17.0008U

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Date of Issue: 2017-06-02

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

General product information:

HD indicator is an "Ex" component. An indicating lamp shade made of polycarbonate and a lower body made of reinforced nylon are locked together by buckled device to form a compartment. A colorful lamp shade cover the indicating lamp shade by a bayonet cover. A PCB and a light-emitting diode are mounted inside the compartment. Two conductors pass through the wall of the lower body. The lower part of the PCB is encapsulated by epoxy resin. And the indicating lamp shade, the lower body and the upper body are cemented by epoxy resin. The threads of the upper body are flameproof joint which is intended to be screwed to the enclosure of the equipment. Terminals are installed at the end of the lower body. Alternatively a cable is soldered to the conducting strips.

Nomenclature:

HD- **

1 2

1:electrical connection

I=Screw connection

II=2m cable connection

2:indicator code, rated voltage and lamp colour

A=440VAC, 50/60Hz

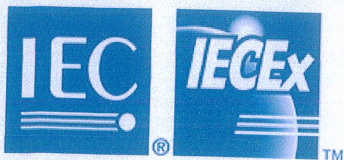
B=220VAC to 415VAC, 50/60Hz

C=220VDC

D=48VAC/DC to 120VAC/DC

E=12 VAC/DC to 36VAC/DC

SPECIFIC CONDITIONS OF USE: NO



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Certificate No: IECEx CQM 17.0008U

Issue No: 0

Date of Issue: 2017-06-02

Page 4 of 4

EQUIPMENT (continued):

Schedule of Limitations:

1. The equipment intended to be mounted with the HD indicator must be provided with an enclosure with type of protection "db" and "tb". The flameproof joints formed by the type HD indicator and the equipment must comply with the table 4 of the IEC 60079-1 Edition 7. And the equipment mounted with the type HD indicator should be subjected to the test for non-transmission of an internal ignition specified in the IEC 60079-1 Edition 7.
2. The reference pressure of the equipment mounted with the type HD indicator should be not greater than 1.2MPa.
3. The threads of the type HD indicator are not intended to be repaired.
4. The HD indicator should be mounted on the metal enclosure of the equipment with at least degree of IP66. The equipment with metal enclosure should be earthed reliably.
5. Rated service temperature range for Ex Components : -60°C to +70°C