



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

### Ex COMPONENT CERTIFICATE

Certificate No.: **IECEX CQM 17.0008U** Page 1 of 4 Certificate history:  
Status: **Current** Issue No: 1 [Issue 0 \(2017-06-02\)](#)  
Date of Issue: 2026-01-21  
Applicant: **WAROM TECHNOLOGY INCORPORATED COMPANY**  
No. 555, Baoqian Road, Jiading District, Shanghai 201808  
**China**  
Ex Component: Explosion-proof Indicator typed HD-\*\*  
*This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).*  
Type of Protection: **Flameproof enclosure "db", Dust ignition protection by enclosure "tb"**  
Marking: Ex db II C Gb, Ex tb IIIC Db  
IP66

Approved for issue on behalf of the IECEx  
Certification Body:

**Ji Xiaodong**

Position:

**President**

Signature:  
(for printed version)

Date:  
(for printed version)

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3. The Status and authenticity of this certificate may be verified by visiting [www.iecex.com](http://www.iecex.com) or use of this QR Code.



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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**China**

Manufacturing locations: **WAROM TECHNOLOGY INCORPORATED COMPANY**  
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**China**

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 component 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

[IEC 60079-31:2022](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:3.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

#### TEST & ASSESSMENT REPORTS:

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

Test Report:

[CN/CQM/ExTR17.0013/01](#)

Quality Assessment Report:

[CN/CQM/QAR07.0003/14](#)



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## Ex Component(s) covered by this certificate is described below:

HD series explosion-proof Indicator can be used in zone 1 and zone 2 explosive gas mixture places or combustible dust Zone 21, Zone 22. This product is "Ex" component, which cannot be used independently. It needs to be installed with a suitable certified enclosure.

HD series explosion-proof 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 lamp shade is secured onto the indicator housing via snap-fit. A PCB and a light-emitting diode are mounted inside the internal compartment. Two conductors pass through the compound between the internal compartment and the housing of the lower body. The lower part of the PCB is encapsulated by adhesive-filled compound. And the indicating lamp shade, the lower body and the upper body are cemented by adhesive-filled compound. 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.

Ratings: HD-\* a: 440V AC 50/60 Hz, HD-\* b: 220~415V AC 50/60 Hz, HD-\* c: 220V DC, HD-\*d: 48V~120V AC/ DC, HD-\*e: 12V~36V AC/ DC

Nomenclature:

HD- \*\*

1 2

1: Color: R: red, G: Green, Y: Yellow, W: White, BL: Blue

2: Voltage:

a: 440VAC, 50/60Hz

b: 220VAC to 415VAC, 50/60Hz

c: 220VDC

d: 48VAC/DC to 120VAC/DC

e: 12VAC/DC to 36VAC/DC

## SCHEDULE OF LIMITATIONS:

1. The explosion-proof indicators are suitable for use in enclosures in atmospheres with flammable gases or combustible dust. The explosion-proof indicator shall be installed with an Ex d enclosure for explosive gas atmosphere or with an Ex tb enclosure for combustible dust atmosphere.
2. The explosion-proof indicator can be used in service temperature range: -60°C~+100°C.
3. The maximum ambient temperature for calculation the test factor for the non-transmission of an internal ignition: +70°C.
4. The minimum ambient temperature for calculation the test factor for overpressure test: -60°C.
5. The maximum volume of the flameproof compartment which the indicator is allowed to be installed is 280L.
6. The indicator is certified as Ex component which shall be certified together with a suitable enclosure before used in the explosive atmosphere.
7. There is potential electrostatic charge hazardous when installed in combustible dust atmosphere. Refer to user manual for more details.
8. The flameproof joint cannot be repaired.
9. The explosion-proof indicator has been submitted to overpressure test with 5 MPa according to IEC 60079-1 during the type tests after those tests for non-metallic enclosure specified in IEC 60079-0. This pressure shall be considered during the assessment for the final assembled equipment including the routine test of the indicator.



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## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

1. The product name updated from the original HD indicator to HD Explosion-proof indicator.
2. The standards associated with this ExTR package upgrade from IEC 60079-0:2011, IEC 60079-31:2013 to IEC 60079-0:2017, IEC 60079-31:2022.
3. Changed the rated service temperature range from  $-60^{\circ}\text{C}\sim 70^{\circ}\text{C}$  to  $-60^{\circ}\text{C}\sim +100^{\circ}\text{C}$ .
4. Remove the structure with permanent wiring and update the nomenclature.