



# 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 CML 17.0161U

Issue No: 0

Certificate history:  
[Issue No. 0 \(2017-11-17\)](#)

Status: **Current**

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Date of Issue: **2017-11-17**

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

Equipment: **HA Flameproof Pushbutton**

*Optional accessory:*

Type of Protection: **Ex db & Ex tb**

Marking:  
Ex db IIC Gb  
Ex tb IIIC Db

*Approved for issue on behalf of the IECEx  
Certification Body:*

A Snowdon

*Position:*

Certification Officer

*Signature:  
(for printed version)*

*Date:*

November 17, 2017

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:*

**Certification Management Limited**  
Unit 1, Newport Business Park  
New Port Road  
Ellesmere Port, CH65 4LZ  
United Kingdom





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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** Explosive atmospheres - Part 0: General requirements

Edition:6.0

**IEC 60079-1 : 2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

Edition:7.0

**IEC 60079-31 : 2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

Edition:2

*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:

[GB/CML/ExTR17.0196/00](#)

Quality Assessment Report:

[CN/CQM/QAR07.0003/07](#)



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## Schedule

### EQUIPMENT:

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

The HA Flameproof Pushbutton comprises a core, a sleeve, a cap, an axle and a compression spring.

Refer to Annex for full Description, the Schedule of Limitations and the Conditions of Manufacture.

SPECIFIC CONDITIONS OF USE: NO

### Annex:

[IECEx CML 17.0161U Certificate Annex Iss 0.pdf](#)

**Annexe to:** IECEx CML 17.0161U Issue 0  
**Applicant:** Warom Technology Incorporated Company  
**Apparatus:** HA Flameproof Pushbutton



## Product description

The HA Flameproof Pushbutton comprises a core, a sleeve, a cap, an axle and a compression spring. A gator is fitted between the pushbutton axle and the pushbutton sleeve to provide degree of protection IP66 along with an O-ring in a groove on the pushbutton sleeve. The pushbutton core is fixed to the pushbutton axle via two M4 screws and a mounting bracket.

Rated voltage and rated current:

660 VAC, 10 A. 440 VDC, 6 A

## Conditions of Manufacture

The following are conditions of manufacture:

- i. A routine overpressure test shall be carried out on each HA Flameproof Pushbutton at 18 bar for a period of at least 10 seconds, in accordance with IEC 60079-1 clause 16.1. There shall be no permanent deformation or damage.

## Schedule of Limitations

- i. The equipment to be fitted with the HA Flameproof Pushbutton shall provide type of protection "db" or "tb" as applicable. The flameproof joints formed by the type HA Flameproof Pushbutton and the equipment shall comply with IEC 60079-1 Table 4. In addition, the equipment to which the type HA flameproof button is mounted shall be subjected to the test for non-transmission of an internal ignition with the HA flameproof button fitted. Testing shall be in accordance with Gas Group IIC, as specified in IEC 60079-1.
- ii. The reference pressure of the equipment to be fitted with the HA Flameproof Pushbutton shall be no greater than 12 bar.
- iii. The threads of the HA Flameproof Pushbutton shall not be repaired.
- iv. The service temperature of the HA Flameproof Pushbutton shall not exceed -60°C to +70°C.

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