



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 UL 16.0071X Issue No: 1 Certificate history:
Status: **Current** Issue No. 1 (2017-09-20)
Date of Issue: **2017-09-20** Issue No. 0 (2017-01-29)
Applicant: **TOP HI-TECH CO., LTD.**
5F, No.113, Zhongcheng Rd., Tucheng Dist., New Taipei City, 236, (R.O.C.)
Taiwan
Equipment: **L1319 Series LED Luminaire - THTE1319ZCC*2D0-*** and THTE1319ZCC*1D0-*****
Optional accessory:
Type of Protection: **Flameproof, "db" and Dust Ignition by Enclosure, "tb"**
Marking:
Ex db IIC T6 Gb
Ex tb III C T85°C Db (See Annex for T Codes)

-40°C ≤ Ta ≤ +55°C

Approved for issue on behalf of the IECEx
Certification Body:

Lucy Frieders

Position:

Staff Engineer

Signature:
(for printed version)

Date:

2017-09-20

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

Certificate issued by:

UL LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America





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Manufacturer: TOP HI-TECH CO., LTD.
5F, No.113, Zhongcheng Rd., Tucheng Dist., New Taipei City, 236, (R.O.C.)
Taiwan

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:

[US/UL/ExTR16.0078/01](#)

Quality Assessment Report:

[DE/TUR/QAR13.0016/01](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Model L1319 series of luminaires is suitable for use in hazardous location classified as Zone 1, Zone 2, Zone 21 and Zone 22. This luminaire consists of three interconnecting "db"/"tb" chambers: one is the top cover for wiring connection to cable gland, the others are the LED array chambers. The enclosure material is aluminum alloy. The light-transmitting parts are made of tempered flat glass. The gasket is used to maintain the IP rating. The entry for wiring through integral cable gland maintains the degree of protection. Unused entries are fitted with blanking elements to maintain the degree of protection.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

The flameproof joints are not intended to be disassembled or repaired.



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

Issue 1: Addition of LED module (SMD type) with surge protective devices and LED connectors.

Annex:

[Annex to IECEX UL 16.0071X Issue 1.doc.pdf](#)



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TYPE DESIGNATION

Nomenclature for Luminaires:

The complete luminaire catalog number example is as follows:

Cat. No.	THT	E	1319	Z	C	C	C	2	D0	-S25
	1	2	3	4	5	6	7	8	9	10

- 1 – Brand name, THT = Top Hi-Tech Co., Ltd.
- 2 – Category of product, E = Explosion proof lighting fixtures
- 3 – Model name, 1319 = Model 1319 series
- 4 – Sub-series designation, Z = No sub-series under this model
- 5 – Designates type of Top Cover, C = Top Cover with opening
- 6 – Designates type of LED module, C = LED bar; H = SMD type
- 7 – Designates CCT of LED, C = Cool white; W = Warm white
- 8 – Designates voltage, 2 = 220 Vac; 1 = 110 Vac
- 9 – Designates wattage of LED lighting, D0 = 40 W
- 10 – Mounting type. W90 = Wall mounting; H90 = Hanging mounting; C90 = Ceiling mounting; S25 = Stanchion mounting 25°; P90 = Pendant mounting

Models covered are as follows:

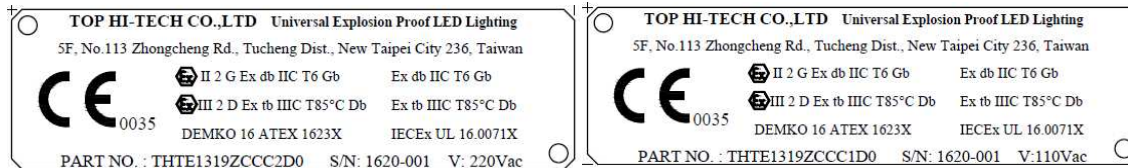
Model	Ambient Temperature	Gas Temperature Code	Dust Temperature Rating
THTE1319ZC**2D0-***	-40°C to +55°C	T6	T85°C
THTE1319ZC**1D0-***	-40°C to +55°C	T6	T85°C

PARAMETERS RELATING TO THE SAFETY

THTE1319ZC**2D0-*** series, rated 220 Vac, 50/60 Hz, 40 W

THTE1319ZC**1D0-*** series, rated 110 Vac, 50/60 Hz, 40 W

MARKING



ROUTINE EXAMINATIONS AND TESTS

Routine overpressure tests in accordance with IEC 60079-1:2014 shall be conducted on all units in accordance with clause 15.2.3.2, at a pressure of 20.52 bar for a duration of not less than 10 seconds. There shall be no sign of damage, deformation or rupture that will invalidate the concept of protection.