

EU-TYPE EXAMINATION CERTIFICATE



[1]

[2]

**Equipment or Protective System intended for use
in Potentially Explosive Atmospheres**

Directive 2014/34/EU

[3] EU-Type Examination Certificate Number: **DEMKO 16 ATEX 1623X Rev. 0**

[4] Product: **LED Luminaires, Models L1319 Series**

[5] Manufacturer: **TOP HI-TECH CO., LTD.**

[6] Address: **5F, No. 113, Zhongcheng Rd., Tucheng Dist., New Taipei City, 236, (R.O.C) Taiwan**

[7] This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8] UL International Demko A/S, notified body number 0539 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive
The examination and test results are recorded in confidential report no. **4787121866**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012+A11:2013

EN 60079-1:2014

EN 60079-31:2014

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

[11] This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by the certificate.

[12] The marking of the product shall include the following:

 **II 2 G Ex db IIC T6 Gb**
 **II 2 D Ex tb IIIC T85°C Db**

Certification Manager

Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2017-01-29

Notified Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
Tel. +45 44 85 65 65, info.dk@ul.com, www.ul.com



[15] Description of Product

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

[13]

[14]

Schedule

EU-TYPE EXAMINATION CERTIFICATE No.

DEMKO 16 ATEX 1623X Rev. 0

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.

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

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 range	Gas Temperature Code	Dust Temperature Rating
THTE1319ZCC*2D0-***	-40°C to +55°C	T6	T85°C
THTE1319ZCC*1D0-***	-40°C to +55°C	T6	T85°C

Temperature range

The ambient temperature range is -40°C to +50°C.

Electrical data

THTE1319ZCC*2D0-*** series – 220 Vac, 50/60 Hz, 40 W

THTE1319ZCC*1D0-*** series – 110 Vac, 50/60 Hz, 40 W

Routine tests

Routine overpressure tests in accordance with EN60079-1:2014 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.

[16]

Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this EC-Type Examination Certificate.

[17]

Specific conditions of use:

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

[18]

Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information

The THT-L1319 series has in addition passed the tests for Ingress Protection to IP67 in accordance with EN60529:1991+A1:2000+A2:2013.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.