

(1) TYPE EXAMINATION CERTIFICATE



- (2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 2014/34/EU**
- (3) Type-Examination Certificate Number

TÜV 21 ATEX 8710 X

Issue: 00

- (4) Equipment: **Explosion-proof LED Tower Lamp / Type: THTH1920 Series**
- (5) Manufacturer: **TOP HI-TECH CO., LTD.**
- (6) Address: **9F., No.1, Zhongshan Rd., Tucheng Dist., New Taipei City 23680, Taiwan**

- (7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies this product which has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report GC/Ex8710.00/21

- (9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN IEC 60079-0: 2018 EN IEC 60079-7:2015+A1:2018

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.
- (12) The marking of the equipment shall include the following:



II 3 G Ex ec IIC T4 Gc

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2022-09-20


Dipl.-Ing. Yang Wang

This Type Examination Certificate without signature and stamp shall not be valid.
This Type Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the
TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group Am Grauen Stein 51105 Köln
Tel. +49 (0) 221 806-0 Fax. + 49 (0) 221 806 114

(13)

Annex

(14)

Type Examination Certificate

TÜV21 ATEX8710 X

Issue: 00

(15)

Description of equipment

15.1 Equipment and type:

Explosion-proof LED Tower Lamp
 THTH1920 Series

15.2 Description / Details of Change

General product information

The Explosion-proof LED Tower Lamp is composed of a body, a top cover, an adapter, three pillars, a tube, a PC tube, a down cover, two gaskets, a terminal block and a set of tower lamps. The enclosure of Explosion-proof LED Tower Lamp is made of A356.2, with a PC tube of AC385(x)(f1) and the enclosure of Explosion-proof LED Tower Lamp is fixed by three SUS304 pillars. The gaskets and the O-ring are made of RBB-6300-70 silicone rubber. The tube is used as the sealing ring for the cable entry, and the material used is EPDM. The set of tower lamps is the product manufactured by TEND. The Explosion-proof LED Tower Lamp, model THTH1920 Series, is constructed in type of explosion protection 'ec' for use in gas explosive atmospheres (Zone 2). The Explosion-proof LED Tower Lamp is suitable for fixed installation in indoor and outdoor environments.

Type code:

Model code									
THT	H	1920	L	N	D	Z	1	3	T
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
(1) Brand name, THT = Top Hi-Tech Co., Ltd (2) Category of product, H = Explosion proof lighting fixtures for Zone 2 area use (3) Model name, 1920 = Model L1920 series (4) Function, L = Non-Flashing mode F = Flashing mode S = Flashing mode with Buzzer B = Non-Flashing mode with Buzzer (5) Appearance type, N = Without Terminal Block C = With Terminal Block (6) Lamp type, D = Tower Lamp (7) CCT, Z= Not specify (8) Voltage, 1 = 110V ,2 = 220V ,3 = 24V ,L = 12V (9) Section, 1~5 (10) Tower Lamp Source T									

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Technical Data

Electrical data

Frequency of Vac: 50 Hz & 60 Hz

LED Lamp and Buzzer Rate power Rate power (THTH1920xxDZxxT)												
Voltage	12VDC		12VAC		24VDC		24VAC		110VAC		220VAC	
	A	W	A	W	A	W	A	W	A	W	A	W
LED**	0.08	0.96	0.15	1.8	0.05	1.2	0.07	1.68	0.02	2.2	0.02	4.4
Buzzer	0.08	0.96	0.08	0.96	0.02	0.48	0.02	0.48	0.01	1.1	0.01	2.2

**Regardless of Color

Environmental data

1. Ambient temperature range: -20°C to +40°C
2. Zone 2
3. Temperature class: T4 for gas explosive atmospheres

(16) Test-Report No. GC/Ex8710.00/21

(17) Special Conditions for safe use

1. Electrostatic charging hazard - Clean only with a damp cloth.
2. Disconnect the tower lamp from the supply circuit before opening.
3. Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage value at the supply terminals to the equipment.
4. The equipment is intended for installation in an area providing at least pollution degree 2.

(18) Basic Safety and Health Requirements

Covered by afore mentioned standard

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

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