



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

Certificate No.: **IECEX TIIS 22.0004X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2023-01-17

Applicant: **TOP HI-TECH CO., LTD.**
9 Floor, No. 1, Zhongshan Road, Tucheng District,
New Taipei City 23680
Taiwan

Equipment: **Explosion-proof Cable Glands**

Optional accessory:

Type of Protection: **Flameproof "db" , increased safety "eb" , Restricted Breathing "nR" and dust protection by enclosure "tb"**

Marking: Ex db IIC Gb
Ex eb IIC Gb
Ex nR IIC Gc
Ex tb IIIC Db
-50°C ≤ Ta ≤ +110°C

Approved for issue on behalf of the IECEx
Certification Body:

Minari Kogane

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

2023.01.17

1. This certificate and schedule may only be reproduced in full.
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Certificate issued by:

Technology Institution of Industrial Safety
16-26 Hirose-dai 2
Sayama-city
Saitama prefecture
Japan





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Manufacturer: **Top Hi-Tech Co., Ltd.**
9F, No. 1, Zhongshan Rd.
Tucheng District
New Taipei City, 236
Taiwan

Manufacturing locations: **Top Hi-Tech Co., Ltd.**
9F, No. 1, Zhongshan Rd.
Tucheng District
New Taipei City, 236
Taiwan

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 equipment 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 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-15:2010](#) Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:4

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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 equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[JP/TIIS/ExTR21.0008/00](#)

Quality Assessment Report:

[DE/TUR/QAR13.0016/04](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Cable Gland is intended to be used to introduce cables into electrical equipment as type of protection Flameproof enclosure "db", Increased Safety "eb", restricted breathing enclosures "nR" and Equipment dust ignition protection by enclosure "tb".

Cable glands are made of nickel-plated brass or stainless steel for use circular non-armoured cables.

For details about the type designation and technical data see annex to this certificate.

Ambient Temperature: -50°C to +110°C

SPECIFIC CONDITIONS OF USE: YES as shown below:

The user shall provide additional clamping of the cable to ensure that pulling is not transmitted to the terminations.

Refer to instruction manuals to obtain detailed specification of the mounting wall.

The THT-2GG100U*d***** have the threaded entries with G thread on which requirements of IEC 60079-1 Ed.6 was applied. These cable glands are for the manufacture of replacement entry devices for equipment in existing installations only.

For entry with parallel thread (metric and G thread), entry threads of the enclosure shall be not less than "Entry length" as described in the instruction manual.

Annex:

[Annex_IECEX_TIIS_22.0004X_00.pdf](#)

Technology Institution of Industrial Safety

16-26 Hirosedai 2, sayama-city, Saitama prefecture, Japan



Annex to IECEx TIIS 22.0004X issue 0

Date: 2022/11

Model Reference:

For Type A or, B

Model	THT	2G	M050	U	X	d	A	3433
	1	2	3	4	5	6	7	8

1 – Brand name

2 – Designates category of product, 2G = Cable gland.

3 – Thread type,

G100	G 1”
M032	M32x1.5P
N112	NPT 1-1/2”
G112	G 1-1/2”
M050	M50x1.5P

4 – Accessory type, U = Explosion proof accessories.

5 – Material, X = SUS 304, S = SUS 316, A = Electroless Nickel Plated Brass

6 – Series number

7 – Gland body type, A = With Socket Set Screw (Type A), B = Without Socket Set Screw (Type B)

8 – Cable OD range

Part No.	Explosion Protection	Thread type	Cable Acceptance	
			Min	Max
THT-2GG100Uxdx1615	Ex db IIC Gb	G 1”	15.0	16.0
THT-2GG100Uxdx1817		G 1”	17.0	18.0
THT-2GG100Uxdx2019		G 1”	19.0	20.0
THT-2GG100Uxdx2221		G 1”	21.0	22.0
THT-2GM032Uxdx1615		M32 x1.5P	15.0	16.0
THT-2GM032Uxdx1817		M32 x1.5P	17.0	18.0
THT-2GM032Uxdx2019		M32 x1.5P	19.0	20.0
THT-2GM032Uxdx2221		M32 x1.5P	21.0	22.0
THT-2GN112Uxdx2827	Ex eb IIC Gb Ex nR IIC Gc Ex tb IIIC Db	NPT 1-1/2”	27.0	28.0
THT-2GN112Uxdx3029		NPT 1-1/2”	29.0	30.0
THT-2GN112Uxdx3231		NPT 1-1/2”	31.0	32.0
THT-2GN112Uxdx3433		NPT 1-1/2”	33.0	34.0
THT-2GG112Uxdx2827		G 1-1/2”	27.0	28.0

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THT-2GG112Uxdx3029	G 1-1/2"	29.0	30.0
THT-2GG112Uxdx3231	G 1-1/2"	31.0	32.0
THT-2GG112Uxdx3433	G 1-1/2"	33.0	34.0
THT-2GM050Uxdx2827	M50 x1.5P	27.0	28.0
THT-2GM050Uxdx3029	M50 x1.5P	29.0	30.0
THT-2GM050Uxdx3231	M50 x1.5P	31.0	32.0
THT-2GM050Uxdx3433	M50 x1.5P	33.0	34.0

For Type C

Model	THT	2G	N034	U	X	d	C	1120
	1	2	3	4	5	6	7	8

1 – Brand name

2 – Designates category of product, 2G = Cable gland.

3 – Thread type,

N034	NPT 3/4"
G034	G(PF)3/4"
M025	M25x1.5P

4 – Accessory type, U = Explosion proof accessories.

5 – Material, X = SUS 304, S = SUS 316, A = Electroless Nickel Plated Brass

6 – Series number

7 – Gland body type, Type C

8 – Cable OD range

Part No.	Explosion Protection	Thread type	Cable Acceptance	
			Min.	Max.
THT-2GN034UxdC1120	Ex eb IIC Gb	NPT 3/4"	11.0	20.0
THT-2GG034UxdC1120	Ex nR IIC Gc	G(PF)3/4"	11.0	20.0
THT-2GM025UxdC1120	Ex tb IIIC Db	M25x1.5P	11.0	20.0