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 CML 20.0042X**

Certificate history:

Status: **Current**

Issue No: 0

Date of Issue: 2020-03-23

Applicant: **Sunleem Technology Incorpated Company**
No.15 Xihenggang Street
Yangchenghu Town
Xiangcheng District
Suzhou
Jiangsu
China

Equipment: **BDM Series Cable Glands, BGJ Series Adapters, BDT Series Plugs**

Optional accessory:

Type of Protection: **Flameproof "db", Increased Safety "eb", Dust Ignition "tb"**

Marking: *BDM Cable Glands and BDT Stopping Plugs*

Ex eb IIC Gb
Ex tb IIIC Db

Ts = -40°C to +80°C

BGJ Adapters

Ex db IIC Gb
Ex eb IIC Gb
Ex tb IIIC Db

Ts = -60°C to +100°C

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

Position: **Technical Manager**

Signature: (for printed version)

Date: 2020-03-23

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 www.iecex.com or use of this QR Code.

Certificate issued by:

Eurofins E&E CML Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom

IECEx Certificate of Conformity

Date of issue: 2020-03-23 Issue No: 0

Manufacturer: **Sunleem Technology Incorpated Company**
No.15 Xihenggang Street
Yangchenghu Town
Xiangcheng District
Suzhou
Jiangsu
China

Additional manufacturing locations:

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 60079-31:2013 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:

GB/CML/ExTR20.0054/00

Quality Assessment Report:

DE/TUR/QAR18.0015/00

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

BDM Series Cable Glands

The BDM Series Cable Glands are manufactured from a non-metallic material and have a with a metric thread type. They consist of a connector body, a compression nut, a polyamide lock nut and elastomeric sealing rings and O-rings.

BDT Series Stopping Plugs

The BDT Series Stopping Plugs are manufactured from a non-metallic material and have a metric thread type. They consist of a stopping plug and lock nut which are made of polyamide and an elastomeric O-Ring.

BGJ Series Adapters

The BGJ Series Adapters are used to provide the connection between equipment and cable glands with type of protection “db”, “eb” or “tb”.

They are manufactured from carbon steel or stainless-steel tubes and are machined to accept either two male threads, two female threads or one male thread and one female thread.

Refer to Annex for full descriptions and conditions of manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:
Refer to Annex for specific conditions of use.

Annex:

IECEx CML 20.0042X Iss. 0 Certificate Annex.pdf

Annexe to:	**IECEx CML 20.0042X Issue 0**
Applicant:	**Sunleem Technology Incorporated Company**
Apparatus:	**BDM Series Cable Glands, BGJ Series Adapters, BDT Series Stopping Plugs**

Descriptions

BDM Series Cable Glands

The BDM Series Cable Glands are manufactured from a non-metallic material and have a metric thread type. They consist of a connector body, a compression nut, a polyamide lock nut and elastomeric sealing rings and O-rings.

The cable glands are available in the following sizes: M16, M20s, M20, M25s, M25, M32, M40, M50 and M63.

They are suitable for increased safety “eb” and dust ignition “tb” at a service temperature range of -40°C to +80°C.

Nomenclature:

BDM	-	X	-	X	-	X
1	-	2	-	3	-	4

1	Product Name	BDM
2	Cable Gland Size	16, 20s, 20, 25s, 25, 32, 40, 50, 63
3	Thread Type	M (metric)
4	Material	P (plastic)

BDT Series Stopping Plugs

The BDT Series Stopping Plugs are manufactured from a non-metallic material and have a metric thread type. They consist of a stopping plug and lock nut which are made of polyamide and an elastomeric O-Ring.

The stopping plugs are available in the following sizes: M16, M20s, M20, M25s, M25, M32, M40, M50 and M63.

They are suitable for increase safety “eb” and dust ignition “tb” at a service temperature range of -40°C to +80°C.

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Nomenclature:

BDT	-	X	-	X
1	-	2	-	3

1	Product Name	BDT
2	Thread Type	M (metric)
3	Material	P (plastic)

BGJ Series Adapters

The BGJ Series Adapters are used to provide the connection between equipment and cable glands with type of protection flameproof “db”, increased safety “eb” or dust ignition “tb”.

They are manufactured from carbon steel or stainless-steel tubes and are machined to accept either two male threads, two female threads or one male thread and one female thread.

The threads may be metric or NPT thread forms.

The adapters are available in the following metric sizes: M16x1.5, M20x1.5, M25x1.5, M32x1.5, M40x1.5, M50x1.5, M63x1.5, M75x1.5, M90x2, M100x2.

The adapters are available in the following NPT sizes: NPT ½”. NPT ¾”, NPT 1”, NPT 1 ¼”, NPT 1 ½”, NPT 2”, NPT 2 ½”, NPT 3”, NPT 3 ½”, NPT 4”

They are suitable for a service temperature range of -60°C to +100°C.

Nomenclature:

BGJ	-	X	-	X	(X)	X	(X)	-	X
1	-	2	-	3	4	5	6	-	7

1	Product Name	BGJ
2	Function Code	A (female-female), B (female-male), C (male-male), D (reducer)
3	Thread Type	M (metric), NPT (60° pipe thread)
4	Only Function Mode “B” and “D”	F (female thread), M (male thread)

5	Only Function Mode “B” and “D”	M (metric), NPT (60°C pipe thread)
6	Only Function Mode “B” and “D”	F (female thread), M (male thread)
7	Material	G (stainless steel (304/316))

Conditions of Manufacture

The following are conditions of manufacture:

i. Where the product incorporates safety critical components, the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.

Specific Conditions of Use

The following relate to the installation and/or safe use of the product:

i. The BDM Series Cable Glands are suitable for use within a service temperature range of -40°C to +80°C.
ii. The BDM Series Cable Glands do not provide sufficient clamping; therefore, the user shall provide effective clamping of the cable to ensure that pulling and twisting is not transmitted to the terminations.
iii. The BGJ Series Adapters are suitable for use within a service temperature range of -60°C to +100°C.
iv. The BDT Series Plugs are suitable for use within a service temperature range -40°C to +80°C.