



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 KSCP 21.0050X** Page 1 of 3 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2021-12-20
Applicant: **GASDNA Co., Ltd.**
101, Bukhang-ro 193 beon-gil, Seo-gu
Incheon 22856
Korea, Republic of
Equipment: **SMART Gas Detector/Transmitter DA-100**
Optional accessory:
Type of Protection: **"db"; "tb"**
Marking: Ex db IIC T6 Gb
Ex tb IIIC T85°C Db

Approved for issue on behalf of the IECEx
Certification Body:

Sang He Kim

Position:

President of the Board

Signature:
(for printed version)

Date:

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:

KSC POLAND Sp. z o.o.
Chorzowska 150 Street
Katowice 40-101
Poland





IECEX Certificate of Conformity

Certificate No.: **IECEX KSCP 21.0050X**

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Date of issue: 2021-12-20

Issue No: 0

Manufacturer: **GASDNA Co., Ltd.**
101, Bukhang-ro 193 beon-gil, Seo-gu
Incheon 22856
Korea, Republic of

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

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:

[PL/KSCP/ExTR21.0050/00](#)

Quality Assessment Report:

[PL/KSCP/QAR21.0030/00](#)



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Date of issue: 2021-12-20

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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Smart Gas Detector/Transmitter DA-100 detects combustible or toxic gas leakage and transmits standard electric current output signal 4-20 mA to various controllers such as gas leakage warning device (GMS-1000/1500/2000), PLX, DDC, or MMR for individual or integrated gas monitoring system. The Smart Gas Detector/Transmitter DA-100 comprises two flameproof enclosures separated by a cement compound that allows passage of electrical wiring from the sinter head to the main enclosure. The Gas Detector may incorporate the use of one or two separately certified cable glands. Refer also to certificate addendum.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Potential electrostatic charging hazard - see instructions
- The device input should be made through the "Ex d" and "Ex t" certified cable glands, which provides ingress protection level of IP6X according to IEC 60079-31.

Annex:

[IECEX_IECEX KSCP 21.0050X_Addendum.pdf](#)

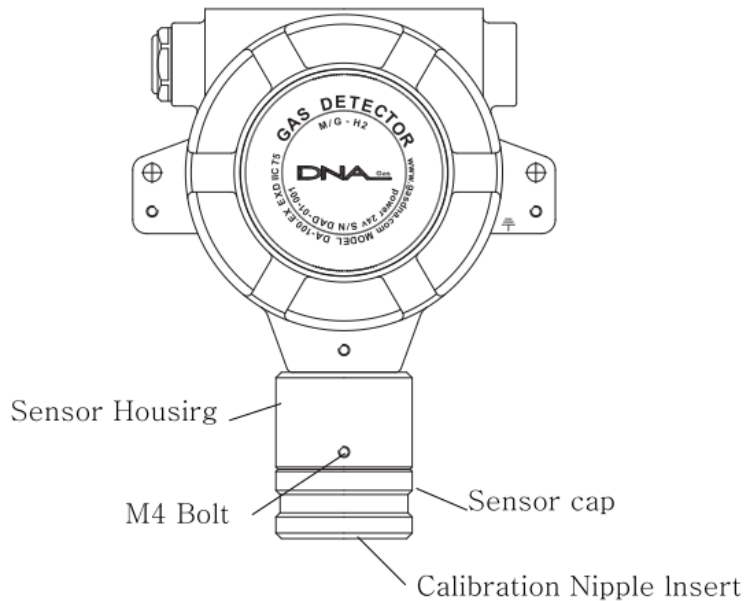


Addendum to IECEx Certificate

Reference Number..... :	IECEx KSCP 21.0050X
Issue..... :	Issue 0

Description

SMART Gas Detector/Transmitter DA – 100 comprises two flameproof enclosures separated by a cement compound that allows passage of electrical wiring from the sinter head to the main enclosure. Main enclosure is built on the basis of a cylindrical shaped aluminium housing, closed from top side by threaded cover. Bottom sensor enclosure consist gas sensor mounted in cylindrical tube closed form one side by sintered mesh and encapsulated by epoxy from other side. External electrical cables can be connected through the PF/ NPT ½” or PF/ NPT ¾” threaded cable gland entries located on the top of the housing. The device main enclosure parts and design are shown in the figures below:



The equipment has the following marking and warning:

Manufacturer's name or Registered trade mark	GASDNA
Address	101, Bukhang-ro 193beon-gil, Seo-gu, Incheon, 22856, Republic of Korea
Equipment name	Gas Detector/Transmitter
Type identification	DA – 100
Serial No and date of manufacturer
IECEx Certificate number	IECEx KSCP 21.0050X

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Code	Ex db IIC T6 Gb, Ex tb IIIC T85 °C Db
Ambient	- 40 °C ≤ Tamb ≤ + 65 °C
Rating	24V DC, 2.88W (4-20 mA output)
Warnings	<ul style="list-style-type: none"> - - Do not open when energized - Do not open when an explosive atmosphere is present Potential electrostatic charging hazard - see instructions

Conditions of manufacture:

- i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or component do not affect the compliance of the certified product is the subject of this certificate. The manufacturer shall also inform KSCP of any modifications that may impinge upon the explosion safety design of their products.
- ii. Equipment housing has pass 4 time reference pressure test, no routine overpressure are required.

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