



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 22.0011X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2022-04-06

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

Equipment: **SMART Gas Detector/Transmitter DA-600-***

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:
(for printed version)

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





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

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/ExTR22.0011/00](#)

Quality Assessment Report:

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



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The SMART Gas Detector/Transmitter DA-600-* (* can be 1 or 2 in accordance with sensor housing 1 or 2) detects combustible or toxic gas leaked from industrial areas and converts digital signal into the 4-20mA standard current output signal which can be transmitted to various devices such as PLC, DDC or recorder, to build up comprehensive gas monitoring system. It also provides RS-485 communication signal and alarm relay contact. For additional data refer to certificate addendum.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Under certain extreme circumstances, the equipment may generate a risk of electrostatic discharge. Therefore, to minimize the risk from electrostatic discharge, follow guidance provided in user manual.

Annex:

[IECEX_IECEX KSCP 22.0011X_Addendum.pdf](#)

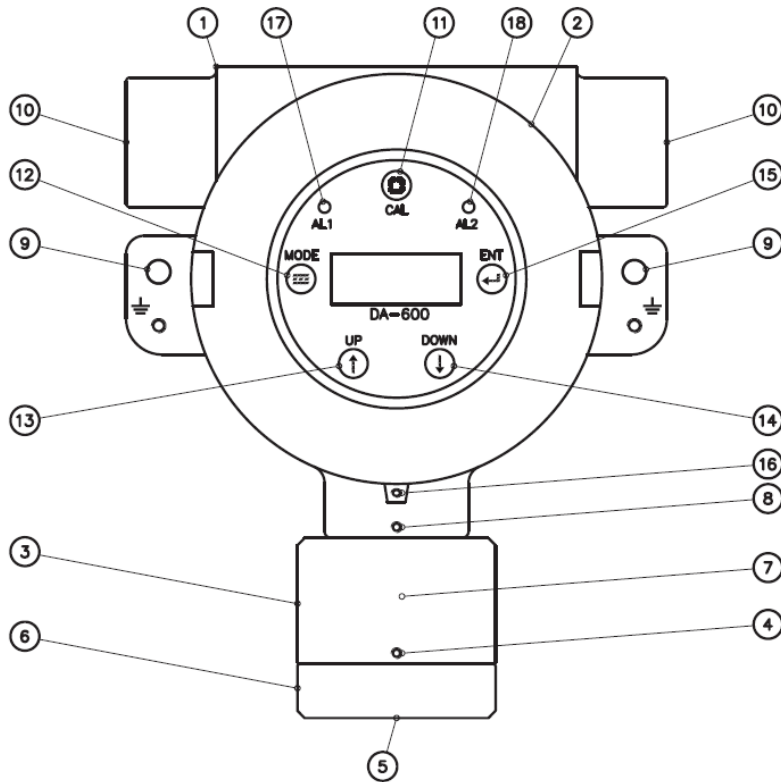


Addendum to IECEx Certificate

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Description


SMART Gas Detector/Transmitter DA-600-* (* can be 1 or 2 in accordance with sensor housing 1 or 2) comprises two flameproof enclosure such as detector housing and sensor housing which are separated by a cement compound in the sensor housing. The detector cylindrical body with threaded cover is made from aluminium (AC4C). The detector housing cover contains a tempered glass window fixed by epoxy. There are two NPT 3/4" entries in a straight line on one side of detector housing body. There is sensor housing on the opposite side at right angle from the entry which is made from STS303 and connected to the detector housing body by threaded joint. Sensor housings consist sensor mounted in cylindrical tube closed from one side by sintered metal element and cemented by epoxy from other side. The cement compound allows passage of electrical wire from the sensor housing to the detector housing. Equipment construction looks as below:



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1. DETECTOR HOUSING BODY	2. DETECTOR HOUSING COVER
3. SENSOR HOUSING	4. M3 BOLT
5. CALIBRATION NIPPLE INSERT	6. SENSOR CAP
7. GAS SENSOR	8. M3 BOLT
9. MOUNT HOLES	10. CONDUIT CONNECTION
11. CALIBRATION KEY	12. MODE KEY
13. UP KEY	14. DOWN KEY
15. ENT KEY	16. M3 BOLT
17. ALARM1	18. ALARM2

The equipment has the following marking and warning:

Manufacturer's name or Registered trade mark	
Address	101, Bukhang-ro 193beon-gil, Seo-gu, Incheon, 22856, Republic of Korea
Equipment name	SMART Gas Detector/Transmitter
Type identification	DA-600-*
Serial No and date of manufacturer	XXXX
IECEX Certificate number	IECEX KSCP 22.0011X
Code	Ex db IIC T6 Gb, Ex tb IIIC T85 °C Db
Ambient	-40 °C ~ +50 °C
Rating	DC 24 V, 100 mA (2.4 W) IP 66
Cable entry	NPT 3/4"
Warnings	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. Detector housing has passed 4 times reference pressure test and sensor housing free volume is less than 10 cm³. Therefore, no routine overpressure test is required for both housings.

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