IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx EPS 17.0058U

Issue No: 1

Certificate history:
Issue No. 1 (2017-11-16)
Issue No. 0 (2017-10-13)

Status: **Current**

Date of Issue: **2017-11-16**

Applicant: **Korea New Ceramics Co., Ltd.**
11 Gyeongin-ro 364, Sosa-gu, Bucheon-si
Gyeonggi-do 422-806 South Korea
Korea, Republic of

Equipment: **Gas Detection Sensors Type KGS 701, KGS 702, KGS 703, KGS 801, KGS 802, KGS 803**

Optional accessory:

Type of Protection: **Ex-d**

Marking:

Ex db IIC Gb

Ex da IIC Ga

Approved for issue on behalf of the IECEx Certification Body: Holger Schaffer

Position: Certification Manager

Signature:
(for printed version)

Date: 2017-11-18

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 the Official IECEx Website.

Certificate issued by:

Bureau Veritas Consumer Products Services Germany GmbH
Businesspark A96
86842 Türkheim
Germany

IECEx Certificate of Conformity

Certificate No:	IECEx EPS 17.0058U	Issue No: 1
Date of Issue:	**2017-11-16**	Page 2 of 4
Manufacturer:	**Korea New Ceramics Co., Ltd.** 11 Gyeongin-ro 364, Sosa-gu, Bucheon-si Gyeonggi-do 422-806 South Korea **Korea, Republic of**	

Additional Manufacturing location(s):

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 electrical apparatus 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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

*This Certificate **does not** indicate compliance with electrical 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:

DE/EPS/ExTR17.0056/00

Quality Assessment Report:

DE/EPS/QAR13.0002/05

IECEx Certificate of Conformity

Certificate No: IECEx EPS 17.0058U Issue No: 1

Date of Issue: **2017-11-16** Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The explosion protected sensor personates a pellistor or catalytic bead sensor for combustible gas detection.

Electrical data:

Type	Operating Voltage U	Operating Current I
KGS 701 and KGS 801	3,0 V DC	76 +/- 6 mA
KGS 702 and KGS 802	3,3 V DC	74 +/- 6 mA
KGS 703 and KGS 803	4,25 V DC	56 +/- 6 mA

For max ambient +55°C the temperature class T6 can be applied in final installation.

Schedule of limitations:

Notes for manufacture, installation and operation in EPL Gb:

The ambient temperature range amounts -40°C ≤ Tamb ≤ +55°C.

The sensor must be installed within apparatus that provides sufficient ingress protection and connection method must be assessed to comply with type of protection suitable for the specific EPL. The supply voltage shall not exceed the values as indicated above for example by use of intrinsic safe power supply.

Notes for manufacture, installation and operation in EPL Ga:

The ambient temperature range amounts -20°C ≤ Tamb ≤ +55°C.

The sensor shall be supplied by a circuit of Level of Protection "ia", with a maximum dissipated power limited to max 1,3 W.

The sensor must be installed within apparatus that provides sufficient ingress protection and connection method must be assessed to comply with type of protection suitable for the specific EPL.

SPECIFIC CONDITIONS OF USE: NO

IECEx Certificate of Conformity

Certificate No: IECEx EPS 17.0058U Issue No: 1

Date of Issue: **2017-11-16** Page 4 of 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Address corretion