



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 KGS 19.0004** Page 1 of 4 [Certificate history:](#)
Status: **Current** Issue No: 1 Issue 0 (2019-10-11)
Date of Issue: 2021-01-14
Applicant: **GASTRON Co., LTD.**
23, Gunpocheomdansaneop 1-ro
Gunpo-si, Gyeonggi-do
Korea, Republic of
Equipment: **Gas Detector (GTD-5100F)**
Optional accessory:
Type of Protection: **Ex db**
Marking: Ex db IIC T6 for Tamb = -20°C to +60°C
Ex db IIC T5 for Tamb = -20°C to +75°C

Approved for issue on behalf of the IECEx
Certification Body:

Seogkwon Chu

Position:

General Manger

Signature:
(for printed version)

Date:

[Handwritten Signature]
2021. 1. 14

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:

Korea Gas Safety Corporation
1390 Wonjung-ro
Maengdong-myeon
Eumseong-gun
Chungcheongbuk-do
27738
Korea, Republic of



**KOREA GAS SAFETY
CORPORATION**



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Date of issue: 2021-01-14

Issue No: 1

Manufacturer: **GASTRON Co., LTD.**
23, Gunpocheomdansaneop 1-ro
Gunpo-si, Gyeonggi-do
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

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 Reports:

KR/KGS/ExTR19.0004/00

KR/KGS/ExTR19.0004/01

Quality Assessment Report:

NL/DEK/QAR19.0002/01



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The GTD-5100F Gas Detector comprise a cylindrical enclosure cast in aluminium alloy completely with a threaded cover incorporating a glass window.

A gas sampling system is located within the enclosure, including a gas sensor and pump assembly with sintered flame arrestor plugs at both gas inlet and gas outlet.

A cable entry hole threaded is provided to facilitate electrical connection via a suitable equipment certified flameproof cable entry device.

Ingress protection : IP65 according to IEC60529

Type designation

Type	Mesuring method
GTD-5100FNNE	Electrochemical
GTD-5100FNNC	Caltalytic
GTD-5100FNNS	Semiconductor
GTD-5100FNNP	Photoionization detector(PID)
GTD-5100FNAN	IR

Rating

Voltage	Wattage	Current
Min. DC 16V Nominal DC 24V Max. DC32V	Max 7.2W at 24VDC	Max 500mA at 24 VDC

SPECIFIC CONDITIONS OF USE: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

1. 1. Glass on the cover was changed to other glass.
1. 2. Over pressure test was conducted at 4 times pressure of reference pressure.
- 1.3. Metric thread was added on cable entry.