



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 TUR 20.0082X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2024-06-13

Applicant: **Hanwei Electronics Group Corporation**
No.169,Xuesong Road,National Hi-Tech Zone,Zhengzhou 450001,
China

Equipment: **Fixed Gas Detector, model GTQ-BS01, GTQ-BS02, GTQ-BS03 and GTQ-BS05**

Optional accessory:

Type of Protection: **Equipment protection by flameproof enclosures "db" and Equipment dust ignition protection by enclosure "tb"**

Marking: Ex db IIC T6/T5 Gb
Ex tb IIIC T80°C/T95°C Db
-40°C...+47°C(T6/T80°C)
-40°C...+60°C(T5/T95°C)

Approved for issue on behalf of the IECEx
Certification Body:

Dipl.-Ing. Yang Wang

Position:

Assigned Certifier

Signature:
(for printed version)

Date:
(for printed version)

2024-06-13

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.
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Certificate issued by:

TUV Rheinland Industrie Service GmbH
Am Grauen Stein
51105 Cologne
Germany





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Manufacturing
locations: **Hanwei Electronics Group
Corporation**
No.169,Xuesong Road,National Hi-
Tech Zone,Zhengzhou 450001,China
China

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](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-31:2022](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

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 Report:

[DE/TUR/ExTR20.0082/00](#)

Quality Assessment Report:

[NL/CNEX/QAR20.0001/02](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The GTQ-BS series of fixed gas detector has four different models, namely GTQ-BS01, GTQ-BS02, GTQ-BS03 and GTQ-BS05. The fixed gas detector is designed for using in atmospheres Zone 1, Zone 2, Zone 21 and Zone 22. The explosive protection types are "db" and "tb". The equipment including two parts of enclosures and sensor. The enclosure is composed of upper cover, O-ring, main enclosure, transparent window and plug etc. The enclosures have two important structures: main enclosure and upper cover. The equipment has two $\frac{3}{4}$ NPT threaded connections for wiring installation. All the moles have the same main enclosure. The main enclosures for all models are made of ADC12 Aluminum. The rated voltage is 18Vdc to 30Vdc, and the maximum power is 3W.

The differences between the series are listed as below:

- (1) The models GTQ-BS01 and GTQ-BS02 have the same upper cover, and the upper cover consists of PVC transparent parts and a metal enclosure. The models GTQ-BS03 and GTQ-BS05 have the same upper cover, and the cover consists of tempering glass transparent parts and a metal enclosure.
- (2) The models GTQ-BS01, GTQ-BS02 and GTQ-BS03 have the same type HM25 sensor module, while GTQ-BS05 have type HM40 sensor module.
- (3) The display mode of the models GTQ-BS01, GTQ-BS02 and GTQ-BS03 are different as LCD, LED digital tube and LED light respectively. The GTQ-BS03 and GTQ-BS05 have the same display mode.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. End user shall comply with the manufacturer's User manual to minimize the risk from electrostatic discharge: Conductors and live parts are prohibited from contacting the non-metallic enclosure during normal operation of the equipment. Use insulators to contact non-metallic enclosures during maintenance.
2. Tamb: -40°C...+47°C(T6/T80°C), -40°C...+60°C(T5/T95°C).
3. End user shall use certified cable glands with suitable type of protection for installation purpose. Cable gland with minimum IP66/IP67 rating.