(1) EU-TYPE EXAMINATION CERTIFICATE

- (2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - Directive 2014/34/EU
- (3) EU-Type Examination Certificate Number

# TÜV 20 ATEX 8612 X

- (4) Equipment: Fixed Gas Detector Model name: GTQ-BS Series
- Manufacturer: Hanwei Electronics Group Corporation.
  Address: No. 169, Xuesong Road, National Hi-Tech Zone, Zhengzhou, 450001 Henan, P.R. China.
- (7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26<sup>th</sup> February 2014, certifies this product which has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report GC/Ex8612.00/20

- (9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:
  - EN IEC 60079-0:2018

EN 60079-1:2014 EN 60079-31:2014

Issue: 00

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Precisely Right.

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EU-Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.
- (12) The marking of the equipment shall include the following:



DAKKS Deutsche Akkreditierungsstelle D-ZE-11052-03-00



(13)

Annex

# (14) EU Type Examination Certificate TÜV 20 ATEX 8612 X Issue: 00

# (15) <u>Description of equipment</u>

15.1 Equipment and type:

Fixed Gas Detector, GTQ-BS Series Model name: GTQ-BS01, GTQ-BS02, GTQ-BS03 and GTQ-BS05

Note: Model differences,see Clause 15.2 below.

#### 15.2 Description / Details of Change

#### General Description:

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 consists of two parts: a sensor and an enclosure. 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 ¾ NPT threaded connections for wiring installation. All the moles have the same main enclosure. The main enclosures for all models are made of ADC-12 Aluminum. The rated voltage is 18Vdc to 30Vdc, and the maximum power is 3W.

The differences between the series are listed as below:

- 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.
- 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.

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Technical Data Elektrische Daten/ Electrical data Rated voltage: (24±6)VDC Rated power: 3.0W

Environmental data Tamb: -40°C...+47°C(T6/T80°C) -40°C...+60°C(T5/T95°C) IP Rating:IP66/IP67

(16) <u>Test-Report No.</u>

GC/Ex8612.00/20

### (17) Special Conditions for safe use

- 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.

# (18) Basic Safety and Health Requirements

Covered by afore mentioned standard



Cologne, 2024-06-13

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