

CERTIFICATE OF CONFORMITY



1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**

2. **Certificate No:** FM21US0029
3. **Equipment:** GTD-2000Tx Toxic Gas Detector
(Type Reference and Name)
4. **Name of Listing Company:** Gastron Co. Ltd.
5. **Address of Listing Company:** 23 Gunpocheomdansaneop 1-ro, Gunpo-si
Gyeonggi-do, 15881
Korea, Republic of

6. The examination and test results are recorded in confidential report number:
PR454285 dated 6th July 2021

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

FM Class 3600:2018, FM Class 6340:2015, ANSI/UL 60079-0:2013, ANSI/UL 60079-1:2015,
ANSI/ISA 92.00.01:R2015, ANSI/IEC 60529:2004

8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

10. **Equipment Ratings:**

Flameproof for Class I, Zone 1, AEx db IIC hazardous locations, indoors and outdoors (IP66) with an ambient temperature rating of -40°C to +80°C.

11. The marking of the equipment shall include:

Class I, Zone 1 AEx db IIC T6...T4 Gb
Ta = -40°C to +60°C (T6)
Ta = -40°C to +80°C (T4)
IP66

Certificate issued by:

J.E. Marquardt
VP, Manager - Electrical Systems

6 July 2021
Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

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SCHEDULE



US Certificate Of Conformity No: FM21US0029

12. Description of Equipment:

General – Stationary Toxic Gas Detector. Electro-chemical cell model GTD-2000Tx consists of an enclosure, Type GDH-1000 fitted with a Type GSA860Tx Hydrogen Sulfide (H₂S) gas sensor. The enclosure is fitted with associated circuitry, termination facilities, and a display visible through the enclosure window. Cable entry is by means of the suitably certified cable entry device fitted into the enclosure's threaded aperture. The detector is Flameproof for use in Class I, Zone 1 AEx db IIC Gb T4 Ta -40°C to +60°C; Ta -40°C to +80°C; hazardous (classified) locations Gas Performance certified for Hydrogen Sulfide gas in air atmospheres.

Operation Temperature Ranges – The operating temperature range of the apparatus is -40°C to +80°C with a T-Code of T4, or reduced to -40°C to +60°C with a T-Code of T6.

Ratings – The apparatus is supplied with a voltage of 18-31 Vdc.

Model Code:

GTD-2000Tx(H₂S). Toxic Gas Detector

Specifications – The manufacturer's specifications are as follows:

Range	0 – 100 PPM
Storage Temperature	-40°C to +80°C
Operating Temperature	-40°C to +80°C
Relative Humidity	5 to 95% non-condensing
Voltage	18-31Vdc
Measurement Signal	4-20mA, LCD Display
Calibration	Magnet
Firmware Version	1.44

13. Specific Conditions of Use:

N/A

14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

15. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
6 th July 2021	Original Issue.

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