



## TYPE APPROVAL CERTIFICATE

**Certificate No.** : INC15142-AE005 **Initial Approval** : 5th March, 2013  
**Product** : Gas Detector  
**Manufacturer** : GASTRON Co., Ltd.  
 23, Gunpocheomdansaneop 1-ro, Gunpo-si, Gyeonggi-do, 15881, Korea

**Product Description** : Model : GTD-2000Tx (H2S)

- Measuring Type	: Diffusion Type
- Display	: Local Digital LCD Display
- Safe Construction	: Ex d IIC T6
- Measuring Gas	: Toxic Gas (H2S)
- Measuring Method	: Electrochemical Cell, Heated-semiconductor Cell
- Protection	: IP66/67

**Approval Condition** : " See Appendix 1 "

**THIS IS TO CERTIFY** that the above-mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows and entered in the "List of Approved Manufacturers and Type Approved Equipment".

Pt.6, Ch.2, Art.301 & Pt.7, Ch.1/5/6 of the Rules for Classification, Steel Ships.  
 EN45544(2000)

This Certificate is valid until 4th March, 2023

Issued at Incheon, Korea on 9th April, 2018



KOREAN REGISTER OF SHIPPING

*General Manager of  
Incheon Branch Office*

*Note : 1. This certificate will be valid subject to complying with the approval conditions described on the certificate and/or on the Rules of this Society.*

*2. This certificate will be invalid from the expiry date aforementioned unless the extension or renewal has been granted to the applicant or the manufacturer.*

*3. Any significant modifications or changes in design or construction to the above product without approval from this Society will render this certificate invalid.*

*4. Should the specified rules, regulations or standards be amended during the validity of this certificate, the product is to be re-approved by this Society in accordance with the requirements as amended.*

## Appendix 1

### Product Description and/or Approval Condition

Certificate No : INC15142-AE005

Date of Issue :9th April, 2018

#### 1. Product Description ;

##### 1) Gas Detector ( Model : GTD-2000Tx )

- Measuring Type : Diffusion Type
- Display : Local Digital LCD Display
- Safe Construction : Ex d IIC T6
- Measuring Gas : Toxic Gas (H<sub>2</sub>S)
- Measuring Method : Electrochemical Cell,  
Heated-semiconductor Cell
- Protection : IP66/67
- Response Time : 90% of full scale in less than 15 sec
- Accuracy : within  $\pm 3\%$  / Full Scale
- Operating Temperature : -20 ~ +60°C
- Operating Humidity : 5 ~ 99% RH (Non-condensing)
- Measuring Signal : 4 ~ 20mA DC/Full Scale
- Signal Cable : CVVS or CVVSB 1.5 SQ x 3 Wires + Shield
- Power supply : DC 18 ~ 31V
- Conduit Connection : 1/2" or 3/4" PF, PT, NPT
- Documents : G-10004 Rev.0, GDM-001 Rev.1

#### 2. Approval Condition

- 1) This approval is granted on the basis of the test report no. KOMERI-0314-12T1277, -0311-12T1278, -0306-12T1276, -0306-12T566, -0602-12T1279-1, KOMERI-CTA-12T1388, -12T1468, issued by KOMERI, G1209-0003, G1209-0001 issued by GASTRON, Sira 08ATEX1003(Sira), R51A16417B, R51L19237B, R51A16417A, R51L19237A, R51A16417C issued by Sira
- 2) This application shall not be used for oxygen detector.
- 3) The product or packing is to be marked with the manufacturer's name and type designation on a suitable position.
- 4) Individual Product Certification is not required.

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