



TYPE APPROVAL CERTIFICATE

Certificate No. : INC15142-AE006

Initial Approval : 17th June, 2013

Product : Gas Detector

Manufacturer : GASTRON Co., Ltd.

23, Gunpocheomdansaneop 1-ro, Gunpo-si, Gyeonggi-do, 15881, Korea

Product Description : Model : GTD-2000Tx (C12)

" See Appendix 1 "

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.

This Certificate is valid until 16th June, 2023

Issued at Incheon, Korea on 7th June, 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-AE006

Date of Issue : 7th June, 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 (Cl2)
 - Measuring Method : Electrochemical Cell,
Heated-semiconductor Cell
 - Protection : IP66/67
 - Response Time : 90% of full scale in less than 45 sec
 - Accuracy : within $\pm 3\%$ / Full Scale
 - Operating Temperature : $-20 \sim +60^{\circ}\text{C}$
 - 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.2

2. Approval Condition

- 1) This approval is granted on the basis of KR Cert. no. INC15142-AE005 (Model : GTD-2000TX, H2S), test report no. KOMERI-0314-13T722, KOMERI-0311-13T724 & KOMERI-0602-13T723.
- 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.

< The End >