



TYPE APPROVAL CERTIFICATE

Certificate No. : INC15142-AE005 **Initial Approval** : 5th March, 2013.
Product : Gas Detector
Manufacturer : GASTRON Co., Ltd.
18-8, Dogeumdanjil-gil, palgogi-dong, angrok-gu, Ansan-City,
Gyeonggi-do, 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, 2018.

Issued at Busan, Korea on 5th March, 2013.



KOREAN REGISTER OF SHIPPING

*General Manager of
Materials and Equipment Team*

Note : 1 : The approval will be automatically suspended and the Certificate become invalid from the expiry date of the Certificate in the event that the extension has not been granted or the renewal of the Certificate is not underway.

2 : The manufacturer should notify this Society of any modification or changes that may affect the validity of this Certificate.

Appendix 1

Product Description and/or Approval Condition

Certificate No : INC15142-AE005

Date of Issue : 5th March, 2013.

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 (H₂S)
- 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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