

TYPE APPROVAL CERTIFICATE

Certificate No. : INC15142-AE008 **Initial Approval** : 5th April, 2017
Product : Gas Detector
Manufacturer : GASTRON Co., Ltd.
 18-8, Dogaumdanjil-gil, Sangrok-gu, Ansan-City, Gyeonggi-do, Korea

Product Description : Model : GTD-2000Tx(O₂)

- Measuring Gas	: Oxygen Gas(O ₂)
- Measuring Type / Method	: Diffusion Type / Electrochemical Cell
- Measuring Method	: Electrochemical Cell
- Measuring Signal	: 4 ~ 20mA DC/Full Scale
- Power supply	: DC 18 ~ 31V
- Operating Temperature	: -20 ~ +60°C
- Operating Humidity	: 5 ~ 99% RH (Non-condensing)
- Protection	: IP66/67
- Safe Construction	: Ex d IIC T6 Gb
- Display	: Local Digital LCD Display
- Software version	: V1.19
" 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 of the Rules for Classification, Steel Ships and EN 50104(2010)

This Certificate is valid until 4th April, 2022

Issued at Busan, Korea on 5th April, 2017



KOREAN REGISTER OF SHIPPING

General Manager of
Marine & Ocean Equipment Team

*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-AE008

Date of Issue : 5th April, 2017

A. Documentation :

1. Documents

- Drawing : G-10002 Rev 1, G-Ex0021 Rev 3
- Instruction Manual : GDM-002 Rev 1
- Software Quality Plan : GTD2000_SQP_C Rev A

2. Test Reports

- Visual & Functional Test : G1209-0002
- General Requirement : G1209-0004
- Software Module Test : GTD2000_MTS_VQ2-080918(2) Rev 1.02
- Product Acceptance Test : GTD2000_PATS_V1_01-080911 Rev 1.01
- Environment Test : KOMERI-CTA-12T1268
- EMC Test : KOMERI-0311-12T1269
- IP Test : KOMERI-0306-12T1566
- Performance Test : KOMERI-CTA-12T1280, KOMERI-CTA-12T1467
- Ex-Certification : SIRA 08ATEX1003 Issue No. 6, IECEx SIR 08.0003 Issue No. 7

B. Approval Condition

- 1) The product or packing is to be marked with the manufacturer's name and type designation on a suitable position.
- 2) Individual Product Certification is not required.

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