

# EC-TYPE EXAMINATION CERTIFICATE

Certificate No:

**MEDB0000079**  
**DNV GL**

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2013/52/EU, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This Certificate is issued by DNV GL AS under the authority of the Government of the Kingdom of Norway.

## This is to certify:

**That the Fixed oxygen analysis and gas detection equipment**

with type designation(s)  
**GD10P**

Issued to

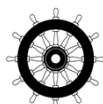
**SIMTRONICS AS**  
**OSLO, Norway**

is found to comply with the requirements in the following Regulations/Standards:

**Annex A.1, item No. A.1/3.54 and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation II-2/4 & VI/3 and FSS Code 15**

Further details of the equipment and conditions for certification are given overleaf.

**Høvik, 2015-07-27**  
for **DNV GL AS**



This Certificate is valid until  
**2020-07-26**

Notified Body No.: **0575**

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**Petter Langnes**  
**Head of Department**

DNV GL local office:  
**Oslo Maritime and CAP**

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**Andrzej Gdaniec**  
**Surveyor**

## Product description

The IR gas detector GD10P can be used for detection of gas hazards in a wide range of industrial environments from boiler plant rooms to offshore petrochemical installations. Silicon based solid-state infrared sources are utilised.

Standard version is 0-100% LEL Methane with 5 sec. response time, but versions for several HC gases can be requested.

For retrofit applications, a bridge interface is available allowing the detector to be connected directly to catalytic systems, using the existing cabling and control modules. Supplied with EX approval and is suitable for use in SIL 2 and SIL 3 systems.

## Application/Limitation

The equipment are found to comply with following location/application dependent requirements:

- EMC: Bridge and open deck zone (*ref. IEC 60092-504 (2001) table 1 item 19-20*)
- Enclosure: Open decks (IP56) (*ref. IEC 60092-201 table 5*)
- Vibration: General applications (*ref. IEC 60092-504 (2001) table 1 item 10*)
- Temperature: Location (-25°C to +65°C) (*ref. IEC 60092-504 (2001) table 1 item 6-7*), low temp. tested to -40°C, high temp. limited to +65°C due to EX-classification

Ex-certification is not covered by this certificate and the following paragraph, which is for information only, is based on information received from the manufacturer, but not verified by DNV.

| Information on Ex-Certification received from manufacturer – Not verified by DNV |                                                         |                                         |
|----------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------|
| Equipment                                                                        | Certified                                               | Certificate No.                         |
| GD10P                                                                            | Ex II 2 G Ex de IIC T5/T6 Gb,<br>-40°C ≤ Ta ≤ +85°/65°C | Nemko 07ATEX1438<br>Issue 4, 2014-10-09 |

## Type Examination documentation

### Tests carried out

- EN 61779-1 and EN61779-4
- IEC 60092-504 (2001)
- IEC 60533 (1999)

### Marking of product

In general and for identification to this type examination certificate the products shall be marked with:

- Manufacturer's name or trade mark
- Type designation
- Mark of Conformity (see below)

### Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and shall issue a Declaration of Conformity, only when the module F of Annex B in the same directive is fully complied with.

Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a Certificate of Conformity.