



## *Confirmation of Product Type Approval 26/JUL/2011*

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product.

This is to certify that, pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 04/JAN/2014. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And; a Product Design Assessment (PDA) valid until 25/FEB/2014 subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

The Product Design Assessment is valid for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

### SIMTRONICS ASA Model Name(s): GD 10

**Presented to:**  
SIMTRONICS ASA  
P.O. BOX 314  
OKERN  
OLSO  
Norway

<b>Intended Service:</b>	Detection of all combustible gases and CO2 in oil and chemical tankers, LNG carriers and offshore installations.
<b>Description:</b>	Microprocessor type detector for combustible and other gases based on infrared principle. The GD 10 composes of 2 variants, GD10P and GD10PE.
<b>Ratings:</b>	Power Supply: 24 V DC; Output Signal: 4-20 mA; Temperature Range (Ex range): -40 Degree C to +65 Degree C; Enclosure rating: IP66/67; Certification marking: EEx de IIC T6; Electrical Performance Temperature range: -20 Degree C to +60 Degree C or -20 Degree C to +40 Degree C.
<b>Service Restrictions:</b>	Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.
<b>Comments:</b>	Suitable to use with Safety Integrity Level SIL 3 applications.
<b>Notes / Documentation:</b>	This Product Design Assessment (PDA) is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product. Drawing No. 770-810868 Optical Assemblies, 836-81657, Rev. 1. GD1-P & PE Certification Drawing, 07ATEX1438, SIRA No. 861-814711.8 Rev. 0 and EMC Assessment Certificate No. 584
<b>Term of Validity:</b>	This Design Assessment Certificate number 04-LD444057/1-PDA, dated

26/Feb/2009 will expire on 25/Feb/2014 or at an earlier date should there be alterations to the product's design or changes to the referenced ABS Rules and other specifications, which affect the product. Product use on or after 1 January 2010, will be subject to compliance with the ABS Rules or specifications in effect when the vessel, MODU or facility is contracted. The product's acceptability on board ABS-classed vessels or facilities is defined in the service restrictions of this certificate.

**ABS Rules:**

2009 Steel Vessel Rules 1-1-4/7.7, 4-8-3/13.3.2 and 13.3.3, 4-8-4/27.5, 4-9-7/13, 5C-1-7/31.9, and 5C-8-13/6.7

**National Standards:****International Standards:****Government Authority:****EUMED:****Others:**

<b>Model Certificate</b>	<b>Model Certificate No</b>	<b>Issue Date</b>	<b>Expiry Date</b>
PDA	04-LD444057/1-PDA	26/FEB/2009	25/FEB/2014



ABS Programs

ABS has used due diligence in the preparation of this certificate and it represents the information on the product in the ABS Records as of the date and time the certificate was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.