DNV·GL

Certificate No:
MEDB000000G

EC-TYPE EXAMINATION CERTIFICATE

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 Oil-content meters

with type designation(s)
15ppm Bilge Alarm, Type GBA-155

Issued to
Georim Engineering Co., Ltd.
Busan, Republic of Korea

is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/2.3 and Annex B, Module B in the Directive. Marpol 73/78 as amended, Annex I Regulation 16, IMO Res. MEPC.107(49)

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

Høvik, 2015-06-14
for **DNV GL AS**

This Certificate is valid until
2020-06-13

Notified Body No.: **0575**

Petter Langnes
Head of Department

DNV GL local office:
Pusan

Jens Rogge
Surveyor

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Product description

The equipment is intended for installation onboard ships for bilge water monitoring/ alarm - max.15 ppm at discharge overboard

The 15ppm Bilge Alarm is designed and tested to meet the requirements of the IMO Resolution MEPC.107(49).

Application/Limitation

The equipment is not permitted to be installed in spaces subject to explosion hazards.

Type Examination documentation

Drw. No.	*Date/ Rev.*	*Title;*
GBA-155-001	Feb.2005/Rev.0	General Ass'y – GBA-155
GBA-155-002	Feb.2005/Rev.0	Internal View
GBA-155-003	Feb.2005/Rev.0	Sensing Module
GBA-155-004	Feb.2005/Rev.0	Piping Diagram
GBA-155-005	Feb.2005/Rev.0	Elec. Connection View
GBA-155-006	Feb.2005/Rev.0	Elec. Connection View
GBA-155-007	Feb.2005/Rev.0	BG/A CPU Circuit-1
GBA-155-008	Feb.2005/Rev.0	BG/A CPU Circuit-2
GBA-155-009	Feb.2005/Rev.0	Power-Int. Circuit
GBA-155-010	Feb.2005/Rev.0	Analog-Inv. Circuit

Instruction Manual – 15ppm Bilge Alarm – Model GBA-155

Tests carried out

Tested in accordance with the guidelines and specifications of IMO Resolution MEPC 107(49);
-Certificate of Type Approval for 15 ppm Bilge Alarm GBA-155,
issued by Ministry of Maritime Affairs and Fisheries, Republic of Korea, 15 July, 2005.
-Korean Register of Shipping, Report No. GCHKM-0002-05, dated 5 July 2005, Test Data and Results on a 15ppm Bilge Alarm.
-Korea Institute of Machinery and Materials, Report No. 2005202823, dated June 22, 2005, Report on Environmental Testing, Bilge Alarm Monitor GBA-155.

Marking of product

For traceability to this EC Type-Examination, each unit to be marked with;
- Manufacturer's name and trade mark
- Type designation
- Serial No.
- Mark of Conformity
- Revision information, as applicable, for all firmware or software modules installed per hardware unit, necessary to identify the equipment, permanently marked.

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 D or E or F of Annex B in the same directive is fully complied with.

Module D: The quality system for production and testing shall be approved by the Notified Body.

Module E: The quality system for inspection and testing shall be approved by the Notified Body.

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.

This certificate replaces previous EC Type-Examination Certificate No. MED-B-6271.