

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV GL AS under the authority of the Government of Norway.

This is to certify:

That the Magnetic compass – Class A for ships

with type designation(s)

Magnetic Compass MORREF, MORTRAL G-WM, CONSEMI G-WM

Issued to

UNILUX GEOMAR, S.A.
Pinto, Madrid, Spain

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

Regulation **(EU) 2018/773**,

item No. MED/4.1. SOLAS 74 as amended, Regulations V/18, V/19 & X/3, IMO Res. A.382(X), IMO Res. A.694(17), IMO Res. MSC.36(63), IMO Res. MSC.97(73), IMO Res. MSC.302(87)

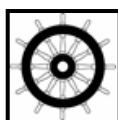
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2024-02-17**.

Issued at **Høvik** on **2019-02-18**

DNV GL local station:
Madrid

Approval Engineer:
Frederik Tore Elter



Notified Body
No.: **0575**

for **DNV GL AS**

Roald Vårheim
Head of Notified Body

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the United States of America and the EEA EFTA states on the mutual recognition of Certificates of Conformity for Marine Equipment" signed 17 October 2005.

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



Product description

Magnetic compasses:

MORREF
MORTRAL G-WM
CONSEMI G-WM

With binnacles:

HANSA IV WM (Type A1)
HANSITA II (Type A2)
HANSA V
HANSA VI

Application/Limitation

Compasses are to be installed according to manufacturers instructions.

Type Examination documentation

Tests carried out

- ISO 1096 Ed.1.0 (1973)
- ISO 25862 Ed.1.0 (2009)
- IEC 60945 Ed.4.0 (2002) incl. Corr 1. 2008

Marking of product

Marking in accordance to ISO 25862 Ed.1.0 (2009).

The name and contact address of the manufacturer and type designation of the product is to be affixed to the equipment in a clearly visible location. In addition the equipment shall be marked with serial number, power consumption and/or supply voltage.