

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive (EU) 2015/559, 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 Rate-of-turn indicator (ROTI)

with type designation(s)
BridgeMate Navigation Display

Issued to
Marine Technologies LLC
EGERSUND, Norway

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

Annex A.1, item No. A.1/4.9 and Annex B, Module B in the Directive; SOLAS 74 as amended, Regulation V/18, V/19 & X/3, IMO Resolution A.526(13) & A.694(17), IMO Resolution MSC. 191 (79) and 2000 HSC Code 13

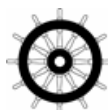
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2021-05-19**.

Issued at **Høvik** on **2016-05-20**

DNV GL local station:
Stavanger

Approval Engineer:
Rolf Heger



Notified Body
No.: **0575**

for **DNV GL AS**

Vidar Dolonen
Head of Notified Body

Product description

Bridge Mate Wind Display comprises following:

Hardware modules:

- MT computer or MT Panel PC
- MT Display
- MT CC Computer
- MT I/O interface Units

Hardware modules are described in detail as hardware profile **HW5** in separate certificate. See Type examination documentation

Application/Limitation

- For the ROT function the Overhead Display has to be connected to a Gyro with a certified Rate of Turn output
- In addition this Rate of Turn Indicator is tested to repeat the following information:
 - Course over Ground
 - Wind
 - Speed over Ground
 - Depth
- The RoT indicator with the additional repeater functions is restricted to be used in MT BridgeMate applications

Type Examination documentation

DNVGL No.	Document No.	Rev.	Title
14	MT-DEV-5461	2.5	Report: DNV, MT-DEV-5461 Gyro DNV GL Test result signed copy
13	MT-DEV-5450	2.8	Report: DNV, MT-DEV-5450 RoT DNV Test result signed copy
15	MT-DEV-0683	5.5	Manual: MT, Operations manual Bridge Mate Overhead Panels
8	TAA00000B	0	Certificate: DNV GL, Bridge Mate Hardware Platform

Tests carried out

- Performance testing, ISO 20672 (2007)
- Performance testing, ISO 8728 (2014) ch. 6.8
- Performance testing, ISO 16328 (2014) ch. 6.8
- Environmental testing, IEC 60945 (2002)
- Presentation testing, IEC 62288 (2014)
- Performance testing, IEC 61162-1 (2010)

Marking of product

The Manufacturer and Type Designation to be applied to the equipment in a clearly visible location. In addition the equipment shall be marked with serial number, safe distance to magnetic compass, power consumption and/or supply voltage.