

# TYPE APPROVAL CERTIFICATE

Certificate No: **TAA00001B5**Revision No:

**Head of Section** 

This is to ce	ertify:	
That the Peripheral Equipment		
with type design OMC-140 Multi	nation(s) functional NMEA Display	
0.000.000	or Instruments BV RK, Netherlands	
is found to comp DNV rules for	oly with classification – Ships, offshore units, and	d high speed and light craft
Application	:	
Product(s) app	roved by this certificate is/are accepted fo	or installation on all vessels classed by DNV.
Location class Temperature Humidity Vibration EMC Enclosure	B B A B	nt rules shall be provided upon installation on board
This Certificate	on 2023-01-03 is valid until 2027-08-22. Netherlands CMC	for <b>DNV</b>
Approval Engine	eer: <b>Martin Skårerverket</b>	
		Frederik Tore Elter

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: TA 251 Revision: 2022-09 www.dnv.com Page 1 of 3

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Job Id: **262.1-025129-2** Certificate No: **TAA00001B5** 

Revision No: 1

#### **Product description**

**OMC-140 Multifunctional TFT Display** 

Ratings:

OMC-140 Multifunctional TFT Display: AC port: 115V / 230V

Option:

OMC-140-01 DC power supply option module: 24V DC

OMC-140-02 Remote option OMC-140-02P Remote Panel

OMC-140-03 Isolated dual NMEA output option

Compass safe distance:

Standard compass: 20 cm, Steering compass: 10 cm

### **Approval conditions**

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

### Type Approval documentation

#### **Tests carried out**

Applicable tests according to class guideline DNV-CG-0339, August 2021.

For the bridge mounted components the 'Compass safe distance' was measured according to section 11.2 of IEC 60945 4th edition (2002).

## **Marking of product**

The products to be marked with:

- manufacturer name
- model name
- serial number
- power supply ratings

Form code: TA 251 Revision: 2022-09 www.dnv.com Page 2 of 3



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#### Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE

Form code: TA 251 Revision: 2022-09 www.dnv.com Page 3 of 3