

Certificate No: **TAA00001B5**

TYPE APPROVAL CERTIFICATE

This is to certify:		
That the Perip	heral Equipment	
with type designation(s) OMC-140		
	or Instruments BV K, Netherlands	
	or classification – Ships, offshore	units, and high speed and light craft
Application:		
Product(s) app by DNV GL.	proved by this certificate is/are a	ccepted for installation on all vessels classed
Location classe Temperature Humidity Vibration EMC Enclosure	es: B B A R B Required protection according to shall be provided upon installations.	
Issued at Høvik on 2017-08-23 This Certificate is valid until 2022-08-22 . for DNV GL DNV GL local station: Rotterdam		
Approval Engine	er: Nils Jarem	
		Odd Magne Nesvåg Head of Section

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.



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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 GL, 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 GL 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 DNVGL-CG-0339, November 2016. 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

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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

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