



Certificate

Of

EC Type-examination (Module B)

Certificate No.: **09212005/AA/04**

Product Category: A.1/5.17

With respect to Marine Equipment Directive 96/98/EC and the amending Directive 2012/32/EU, Telefication declares that the equipment:

Product description: **GMDSS portable survival craft VHF radiotelephone**
Trademark: **McMurdo**
Family name: --
Type designation: **R2 GMDSS**
Serial No: --
Software release No: **1.6**

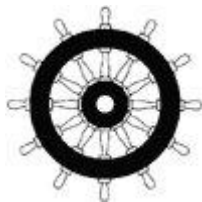
Manufacturer: **Navico UK Ltd**
Address: **Premier Way, Abbey Park**
City: **Romsey SO51 9DH**
Country: **United Kingdom**

complies with the international instruments and test standards as listed in the Annex.
This certificate is granted to:

Name: **Orolia Ltd.**
Address: **Silver Point, Airport Service Road**
City: **Portsmouth PO3 5PB**
Country: **United Kingdom**

Validity of this certificate is 5 years; **Expiry date: 08 May 2014**
This certificate has THREE Annexes.

Zevenaar, 25 November 2013



i.o.

W.J.M. Jong
Manager Product Certification



General conditions

- Each product to which this certificate relates shall be provided with Marine markings. The Marine marking consist of symbol in the form of a wheel followed by the identification number of the responsible Notified Body for module D, E, F or G, and by the last two digits of the number of the year in which the mark is affixed.
- The holder of this Certificate has drawn up a Declaration of conformity to type with Directive 96/98/EC and amending Directives, declaring that the product(s) described in this EC Type-examination certificate, satisfy the requirements that apply to them.
- Each product shall be identified by means of type, batch and/or serial numbers and the name of the manufacturer and/or importer.
- If the equipment is to be modified, Telefication shall be notified immediately. Depending on the modifications, Telefication may have additional examinations carried out in consultation with the applicant.
- Enforcement of a new amending directive voids the validity of this certificate for (re)placement of the product onboard ships.

Remarks and observations

The following conditions are applicable:

- None.

Documentation lodged for this EC type-examination

Test Reports:

- Hursley EMC Services Ltd.: 09R163 CR, 06 May 2009
- Telefication B.V.: 98520921, 10 September 1999
- Telefication B.V.: 98520933, 10 September 1999

Product Documentation:

- Assembly drawings
- Bill of materials
- Electric diagrams
- Photos
- User manual

International instruments and test standards

The equipment complies with:

- EN 300 225: December, 2004, V1.4.1
- EN 300 828: March, 1998, V1.1.1
- EN 60945: October, 2002, Edition 4
- IEC 60945/Corrigendum 1: April, 2008, Edition 4
- IMO Resolution A.694(17): 1991
- MSC Resolution 149(77): June, 2003

Technical features and characteristics

The product includes the following features and characteristics:

VHF equipment:

- Operating frequency range: 155.0 - 163.0 MHz
- Modulation method(s): 16K0G3E
- Maximum output power: 2.5W / 1W
- Channel separation: 25 kHz
- Temperature range: -20°C to +55°C
- Primary Battery: lithium/iron disulfide 3000mAh (typ.); type LTB3 (P/N: 84-210)

Trademarks and Type designations

The product as described in this EC type-examination includes the following type designations:

- Product description: GMDSS portable survival craft VHF radiotelephone
- Trademark: McMurdo
- Type Designation: R2 GMDSS
- Software version: 1.6