telefication bv The Netherlands Chamber of Commerce 51565536 www.telefication.com



Of

# **EC Type-examination (Module B)**

Certificate No.: 12212003/AA/02

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: Portable Survival craft VHF radiotelephone

Trademark: McMurdo

Family name: --

Type designation: R5 GMDSS

Serial No: --

Software release No: 2.00.XX

Manufacturer: Thrane & Thrane A/S

Address: Lundtoftegaardsvej 93D

City: 2800 Lyngby
Country: Denmark

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: 16 May 2017**This certificate has THREE Annexes.

Zevenaar, 25 November 2013

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W.J.M. Jong Manager Product Certification











Annex 1 to EC type-examination Number: 12212003/AA/02

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#### **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 Typeexamination 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:

The R5 GMDSS may also be utilized for on-board communication. For this purpose a rechargeable 1800mAh Lithium-ion battery, model TT-1707A, is available.

The supplied battery charger, model TT-1704A, in combination with AC/DC switching power adapter, model 0H-1048A1200500U-VDE or OH-1048A1201200U-VDE and dual battery charger, model TT-1705A, in combination with AC/DC switching power adapter, model OH-1048A1201200U-VDE have been part of the type approval test.



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# Documentation lodged for this EC type-examination

### Test Reports:

- Delta: Danak-19K0457, 15 June 2007

Delta: Danak-19K0469, 18 September 2007Telefication B.V.: 99788220, 05 April 2007

- Telefication B.V.: 99788230 Rev 2.0, 03 April 2007

### Product Documentation:

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

#### International instruments and test standards

The equipment complies with:

EN 300 225:
 EN 301 843-2:
 EN 60945:
 IEC 60945/Corrigendum 1:
 December, 2004, V1.4.1
 June, 2004, V1.2.1
 October, 2002, Edition 4
 April, 2008, Edition 4

- IMO Resolution A.694(17): 1991

- ITU-R M.489-2: October, 1995 - MSC Resolution 149(77): June, 2003



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### **Technical features and characteristics**

The product includes the following features and characteristics:

# VHF equipment:

- Operating frequency range: Transmitter: 155.000-161.450MHz; Receiver: 155.000-163.425MHz
- Modulation method(s): 16K0G3E
- Maximum output power: 2 Watt rated
- Primary battery: Lithium Iron Disulfide 3000mAh
- Temperature range: -20°C to +55°C
- Channel separation: 25 kHz



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# **Trademarks and Type designations**

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

- Product description: Portable Survival craft VHF radiotelephone

- Trademark: McMurdo- Type Designation: R5 GMDSS- Software version: 2.00.XX