



Certificate

Of

EC Type-examination (Module B)

Certificate No.: 13212002/AA/01

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 radio telephone**
Trademark: **Entel**
Family name: --
Type designation: **HT649**
Serial No: --
Hard-/Software release No: **1.0|1.0**

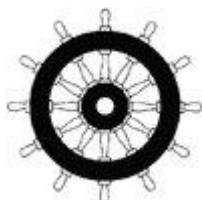
Manufacturer: **Entel UK Limited**
Address: **320 Centennial Avenue, Centennial Park, Elstree**
City: **Borehamwood WD6 3TJ**
Country: **United Kingdom**

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

Name: **Entel UK Limited**
Address: **320 Centennial Avenue, Centennial Park, Elstree**
City: **Borehamwood WD6 3TJ**
Country: **United Kingdom**

Validity of this certificate is 5 years; **Expiry date: 03 June 2018**
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:

The HT649 may only be utilized for distress situation communication because only primary battery packs are available.

Primary battery packs are CLB750G, CLB750M or CLB750L.

They bear a serial number suffix depending on the utilized celltype and capacity; earlier marketed packs bear no suffix; these packs are identical to packs with suffix C4.

suffix C4 = 2000 mAh (Li-MnO₂).

suffix C5 = 2200 mAh (Li-MnO₂).

suffix C6 = 3000 mAh (Li-FeS₃).

Documentation lodged for this EC type-examination

Test Reports:

- R.N. Electronics Ltd.: 04-415A/4172/1/10, 19 May 2010
- R.N. Electronics Ltd.: 04-417A/4172/1/10, 19 May 2010
- R.N. Electronics Ltd.: 05-383/3674/1/08, 06 June 2008
- Telefication B.V.: 20071457300-rev 5.0, 19 October 2009

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 301 843-2: June, 2004, V1.2.1
- EN 60945: October, 2002, Edition 4
- IEC 60945/Corrigendum 1: April, 2008, Edition 4
- IMO Resolution A.694(17): 1991
- IMO Resolution A.809(19): 1995
- ITU-R M.489-2: October, 1995
- MSC Resolution 149(77): June, 2003

Technical features and characteristics

The product includes the following features and characteristics:

VHF equipment:

- Operating frequency range: TX: 155.0 - 161.45 MHz; RX: 155.0 - 163.425 MHz
- Modulation method(s): 16K0G3E
- Maximum output power: 1W rated
- Primary battery: 2.0 Ah, 2.2 Ah, 3.0 Ah; type designations CLB750G, CLB750M, CLB750L
- Temperature range: -20°C to +55°C
- Channel separation: 25 kHz

Trademarks and Type designations

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

- Product description: Portable Survival craft VHF radio telephone
- Trademark: Entel
- Type Designation: HT649
- Hardware version: 1.0
- Software version: 1.0