



EU type-examination certificate  
(Module B)  
**232120001/AA/00**  
Product Category: MED/5.17

Issued 09 May 2023 Date of expiration of validity 08 May 2028

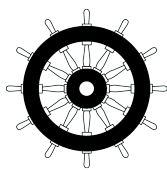
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This certificate has THREE Annexes

In compliance with the procedure specified in the **Marine Equipment Scheme** RD\_040, Kiwa Nederland B.V. declares as designated Notified Body 0063 for the Marine Equipment Directive, that the stated product complies with Directive 2014/90/EU and Implementing Regulation (EU) 2022/1157, based on the applicable international instruments and test standards as listed in Annex 2 of this certificate.

Product description: **Portable Survival craft VHF radio telephone**  
Trademark: **Entel**  
Type designation: **HT649**  
Hardware / Software: **V6.0 / V3.2.0.0**

This certificate is granted to:

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



0063

Ron Scheepers  
Managing director



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Chamber of commerce  
08090048

CERTIFICATE

**General conditions**

- This EC type-examination certificate is limited to the Marine Equipment Directive.
- Each product to which this certificate relates shall be provided with Marine markings. The Marine marking consists 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 2014/90/EU and Implementing Regulations, declaring that the product(s) described in this EC type-examination certificate, satisfy the requirements that apply to them.
- The validity of this EC type-examination certificate is limited to products, which are equal to the one(s) assessed for this EC type-examination.
- 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, Kiwa shall be notified immediately. Depending on the modifications, Kiwa may have additional examinations carried out in consultation with the applicant.
- Enforcement of a new amending directive or new Implementing Regulation may void the validity of this EC type-examination certificate regarding (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 batterypacks 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-MnO<sub>2</sub>).

suffix C5 = 2200 mAh (Li-MnO<sub>2</sub>).

suffix C6 = 3000 mAh (Li-FeS<sub>3</sub>).

suffix C7 = 3400 mAh (Li-FeS<sub>2</sub>)

**Documentation lodged for this EC type-examination certificate**

## Test Reports:

- Telefication B.V.: 20071457300-rev 5.0, 19 October 2009
- R.N. Electronics Ltd.: 05-383/3674/1/08, 06 June 2008
- 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.: 05-8813-1-16 Issue 01, 27 May 2016
- R.N. Electronics Ltd.: 05-8813-2-16 Issue 01, 20 May 2016
- R.N. Electronics Ltd.: 01-8968-1-17 Issue 01, 08 February 2017
- R.N. Electronics Ltd.: 01-8968-3-17 Issue 01, 17 January 2017
- R.N. Electronics Ltd.: 06-10700-1-18 Issue 01, 28 June 2018
- R.N. Electronics Ltd.: 12-13941-2-22 Issue 01, 22 December 2022
- R.N. Electronics Ltd.: 02-13941-1-23 Issue 01, 01 March 2023

## Product Documentation:

- Assembly drawings
- Bill of materials
- Block diagram
- Electrical diagrams
- Internal photos
- External photos
- Manual
- Label and label placement
- Test setup photos
- Risk assessment

**International Instruments and test standards**

The product is compliant with:

EN 300 225	December, 2015	V1.5.1
EN 301 843-2	November, 2017	V2.2.1
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	
MSC Resolution 36(63)	May, 1994	
MSC Resolution 97(73)	December, 2000	

**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, 3.4 Ah; type designations CLB750G, CLB750M, CLB750L; Temperature range: -20°C to +55°C; Channel separation: 25 kHz

**The product as described in this certificate includes the following type designations:**

- Product description: Portable Survival craft VHF radio telephone
- Trademark: Entel
- Type designation: HT649
- Hardware version: V6.0
- Software version: V3.2.0.0