

CERTIFICATE

of

EC Type-examination (Module B)

Certificate No: 222120007/AA/00 Product Category: MED/5.1

With respect to Marine Equipment Directive 2014/90/EU and the implementing Regulation (EU) 2021/1158, Telefication Notified Body 0560 declares that the equipment:

Product description: VHF radiotelephone with integrated DSC & ch70 watch keeping

receiver

Trademark: FURUNO
Type designation: FM-8900S
Software version: 0550249-05.xx

Manufacturer: Furuno Electric Co., Ltd.
Address: 9-52 Ashihara cho
City: 662-8580 Nishinomiya
Country: JAPAN

Complies with the international instruments and test standards as listed in the Annex.

This certificate is granted to:

Name: Furuno Electric Co., Ltd. Address: 9-52 Ashihara cho City: 662-8580 Nishinomiya Country: JAPAN

Validity of this certificate expires on date: **01 April 2027**This certificate has THREE Annexes.

Apeldoorn, 01 April 2022

0560

Willem Jan 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 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.
- 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 Implementing Regulation may void the validity of this certificate regarding (re)placement of the product onboard ships.

Remarks and observations

The following conditions are applicable:

Equipment utilizes channelset in accordance with Appendix 18 of WRC-2015.

Equipment complies with ATIS when channel-set for Europe Inland Waterways has been chosen.

Instead of category exposed as defined in EN 60945, the remote station RB-8900-W has been tested for dust (IP5X) and rain/spray (IPX6) according to IEC 60529.

System related equipment

The product to which this certificate relates includes to following units or equipment:

- FM-8900S: VHF Radiotelephone, simplex, semi-duplex
- HS-2003: Handset
- HS-6000: Handset
- HS-8900: Remote handset
- IF-8900: Junction box
- RB-8900: Remote station
- HG-8900: Handset hanger
- RB-8900-W:Watertight Remote station (IP56 IEC 60529)
- HS-8900-W: Watertight Remote handset (IP56 IEC 60529)
- HG-8900-W: Watertight Handset hanger (IP56 IEC 60529)
- IC-350: Alarm unit
- PP-510: Printer
- PP-520: Printer
- PP-8800A: Printer
- IF-8500: Printer interface
- PR-240: AC/DC Power supply unit
- PR-300: AC/DC Power supply unit
- RBD-VHF(B): Microphone receptacle box
- SEM-21Q: External loudspeaker
- RC-8900: VHF console
- PR-241: AC/DC Power supply unit

Annex 1 to EC type-examination Number: 222120007/AA/00



EU Authorized representative: Furuno Europe B.V. Ridderhaven 19B 2984 BT Ridderkerk



Documentation lodged for this EC type-examination

Test Reports:

- Telefication B.V.: 20114676300 rev 2.0, 29 March 2012
- Telefication B.V.: 20114676301 rev 1.0, 26 March 2012
- Furuno Labotech International Co. Ltd.: FLI 12-11-013, 29 February 2012
- Furuno Labotech International Co. Ltd.: FLI 12-11-131 Rev. 2, 12 March 2012
- Furuno Labotech International Co. Ltd.: FLI 12-12-061, 13 April 2012
- RES Laboratory Ltd.: N 17.11, 26 December 2011
- RES Laboratory Ltd.: N 17.11 Amendment 1, 26 December 2011
- RES Laboratory Ltd.: N 17.11 Amendment 2, 26 December 2011
- RES Laboratory Ltd.: N 17.11 Amendment 3, 26 December 2011
- Furuno Labotech International Co. Ltd.: FLI 12-11-012, 29 February 2012
- Furuno Labotech International Co. Ltd.: FLI 12-06-057, 10 November 2006
- TÜV Rheinland Japan Ltd. Yokohama Laboratory: 12603045 001, 27 November 2006
- Furuno Labotech International Co. Ltd.: FLI 12-12-081, 05 September 2012
- RES Laboratory Ltd.: N 12.16, 02 October 2016
- RES Laboratory Ltd.: N 10.17, 06 October 2017
- Labotech International Co., Ltd.: LIC 12-17-087, 08 September 2017
- Labotech International Co., Ltd.: LIC 12-18-106, 13 December 2018
- Labotech International Co., Ltd.: LIC 12-20-119 Rev. 1, 22 October 2020
- Labotech International Co., Ltd.: LIC 12-20-120 Rev. 1, 22 October 2020
- Labotech International Co., Ltd.: LIC 12-20-121 Rev.1, 22 October 2020
- Labotech International Co., Ltd.: LIC 12-20-122 Rev.1, 22 October 2020
- RES Laboratory Ltd.: N 14.21, 05 August 2021
- RES Laboratory Ltd.: N 03.22, 28 January 2022

Product Documentation:

- Assembly drawings
- Bill of materials
- Block diagram
- Electrical diagrams
- Internal photos
- External photos
- Manual
- Test setup photos
- Installation manual
- Corrosion waiver
- DK05-17-0776

International Instruments and test standards

The equipment complies with:

EN 300 338-1	May, 2021	V1.6.1
EN 300 338-2	June, 2020	V1.5.1
EN 301 033	September, 2013	V1.4.1
EN 301 843-1	November, 2017	V2.2.1
EN 301 843-2	November, 2017	V2.2.1
EN 301 925	October, 2017	V1.5.1

Ed. 2.1 Edition 4 Ed. 4.0 Ed. 2.0 Ed. 5.0 Ed. 2.0 Ed. 1.0 Ed. 1.0



IEC 60529 IEC 60945 IEC 60945/Corrigendum 1 IEC 61097-3 IEC 61162-1 IEC 62288 IEC 62923-1 IEC 62923-2 IMO Resolution A.385(X) IMO Resolution A.524 (13) IMO Resolution A.694(17) IMO Resolution A.803(19) ITU-R M.489-2 ITU-R M.493-15 ITU-R M.689-3 ITU-R M.821-1 MSC Resolution 302(87) MSC Resolution 36(63) MSC Resolution 97(73) MSC Resolution 97(73) MSC Resolution Cir. 862 MSC.1/Circ. 1460	2001 August, 2002 April, 2008 October, 2017 August, 2016 July, 2014 August, 2018 August, 2018 1977 1983 1991 1995 October, 1995 January, 2019 October, 2015 March, 2012 February, 1997 May, 2010 May, 1994 1997 December, 2000 1998 June, 2013
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Technical features and characteristics

The product includes the following features and characteristics:

- VHF equipment (simplex, semi-duplex)
 Operating frequency range: 155.0-164.2 MHz (RX); 155.0-161.600 MHz (TX)
 Modulation method(s): 16K0G3E; 16K0G2B
 Maximum output power: 25W; 1W rated
 DSC classification: class A; Integrated channel 70 watchkeeping receiver



Trademarks and Type designations:

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

- Product description: VHF radiotelephone with integrated DSC & ch70 watch keeping receiver

- Trademark: FURUNO
- Type designation: FM-8900S
- Software version: 0550249-05.xx