

Certificate

of

EC Type-examination (Module B)

Certificate N°: 99212022/AA/03

Product Category: A.1/5.11 A.1/5.14 A.1/5.15

With respect to Marine Equipment Directive 96/98/EC and the amending Directive 2002/75/EC,
Telefication declares that the equipment:

Product description: **MF/HF DSC controller and scanning watch keeping receiver**

Trademark: **Furuno**

Family name: **--**

Type designation: **DSC-60**

Serial No: **3516-0011**

Software release No: **CPU:05502011.XX; Modem: 05502021.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**

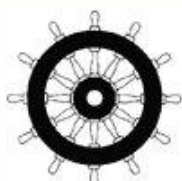
City: **662-8580 Nishinomiya**

Country: **Japan**

Validity of this certificate is 1 year; **Expiry date: 01 May 2008**

This certificate has THREE Annexes.

Zevenaar, 02 May 2007



M.H. Koop
Manager 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 (Telefication - 0560 -), 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.

Remarks and observations

The following conditions are applicable:

- DSC-60 incorporates a DSC-controller class A conforming to ITU-R M.493-10.
- DSC-60 can also be programmed as single channel 2187.5 kHz watch keeping receiver.
- DSC-60 has a built-in facility to remote-control a MF/HF SSB/DSC/NBDP-radio equipment
- A second receiver board can be added to be used as a scanning watch keeping receiver for "working frequencies".

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

- PP-510: Printer
- IC-302: Remote distress button
- IC-303: Incoming indicator
- HSC701K-B20: Handset
- PR-300: AC-powersupply
- PR-240: AC-powersupply
- Second receiver board (routine)

Documentation lodged for this EC type-examination

Test Reports:

- Furuno Labotech International Co., Ltd.: FLI 12-99-037, 26 October 1999
- Telefication bv: 98540530, 23 November 1999

Product Documentation:

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

International instruments and test standards

The equipment complies with:

- | | | |
|-------------------------------|---------------|--------|
| - EN 300 338 | April 1999 | V1.2.1 |
| - EN 301 033 | August 1998 | V1.1.1 |
| - EN 60945 | January 1997 | |
| - IEC 61162-1 | July 2000 | |
| - IMO Resolution A.694(17) | 1991 | |
| - IMO Resolution A.806(19) | 1995 | |
| - IMO Resolution MSC/Cir. 862 | 1998 | |
| - ITU-R M.1082-1 | October 1997 | |
| - ITU-R M.1173 | October 1995 | |
| - ITU-R M.493-10 | May 2000 | |
| - ITU-R M.541-8 | October 1997 | |
| - MSC.36(63) | May 1994 | |
| - MSC.97(73) | December 2000 | |

Technical features and characteristics

The product includes the following features and characteristics:

MF HF equipment:

- Operating frequency range: RX: 2, 4, 6, 8, 12 and 16 MHz channels
- Modulation method(s): TX: AFSK; RX: J2B (F1B)
- Temperature range: -15°C - +55°C

Trademarks and Type designations

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

Product description:	MF/HF DSC controller and scanning watch keeping receiver
Type designation:	DSC-60
Trademark:	Furuno
Serial No:	3516-0011
Software release No:	CPU:05502011.XX; Modem: 05502021.XX