

# Certificate

of

## EC type-examination

Nº: 02212011/AA/00

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

Product description: **A.1/5.13  
Inmarsat-C satellite earth station**  
Trademark: **Furuno**  
Family name: **--**  
Type designation: **Felcom 15**  
Serial Nº: **3533-0001; 3533-0010**  
Software release Nº: **--**

Manufacturer: **Furuno Electric Co., Ltd.**  
Address: **9-52 Ashihara Cho**  
City: **662-8580 Nishinomiya City**  
Country: **Japan**

and with respect to the Production Quality System Approval  
issued under number: **P112, module D**

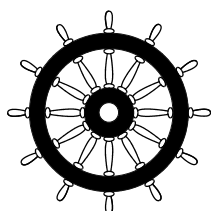
complies with the international instruments and test standards as listed in the Annex.

This certificate is granted to:

Name: **Furuno Electric Co., Ltd.**  
Address: **9-52 Ashihara Cho**  
City: **662-8580 Nishinomiya City**  
Country: **Japan**

This certificate has TWO Annexes.

Zevenaar, 29 November 2002



drs. ir. W.B.A. Blom  
Director Telefication



Accredited by the  
Dutch Accreditation Council

**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 Telefication (i.e. 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, 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:*

- N/A

## Documentation lodged for the EC type-examination

### *Testreports:*

- Labotech: FLI 12-02-047, 25 November 2002
- Labotech: FLI 12-02-048, 12 November 2002
- Furuno: SB-2236, 7 November 2002

### *Product documentation:*

- Bill of materials
- Electric diagrams
- Installation manual
- Photos
- User manual
- Inmarsat Type Approval Particulars Certificate N°: IT-04-089-1, 18 November 2002

## International instruments and test standards

### *The equipment complies with:*

- EN 60945            1997 Third edition
- EN 61162-1        July 2000
- IEC 61097-4        November 1994

### IMO Resolutions:

- MSC.36(63)
- A.570(14)
- A.664(16)
- A.694(17)
- A.807(19)
- MSC.97(73)
- MSC/Cir.862

## Technical features

### *The product includes the following features:*

- Receiving frequency range: 1530.0 to 1545.0 MHz
- Sending frequency range: 1626.5 to 1646.5 MHz
- Maximum RF output power: 12 to 16 dBW EIRP
- Modulation method(s): BPSK

### **System related equipment**

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

- IC-115: Antenna Unit
- IC-215: Terminal Unit
- IC-305: Distress Alert/ Received Call Unit
- IC-306: Alarm Unit
- IC-315: Junction Box
- OP16-24: GPS Receiver
- PP-505: EGC Printer
- PP-510: Printer
- PR-240-CE: AC/DC Power Supply Unit
- BTC-5100C PS/2: Keyboard