



# Bundesrepublik Deutschland

Federal Republic of Germany

## Bundesamt für Seeschifffahrt und Hydrographie

Federal Maritime and Hydrographic Agency



BUNDESAMT FÜR  
SEESCHIFFFAHRT  
UND  
HYDROGRAPHIE

## EC TYPE EXAMINATION (MODULE B) CERTIFICATE

This is to certify that:

Bundesamt für Seeschifffahrt und Hydrographie, specified as a "notified body" under the terms of „Schiffssicherheitsgesetz“ of 9. September 1998 (BGBl. I, p. 2860) modified last 25. June 2004 (BGBl. I, p. 1391), did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the Navigation requirements of Marine Equipment Directive (MED) 96/98/EC as modified by Directive 2002/75/EC.

Applicant

**Ferropilot GmbH**

Address

Siemensstrasse 35  
25462 Rellingen, Germany

Manufacturer

**Furuno Electric Co. Ltd.**

Address

No 9-52, Ashihira-Cho  
Nishinomiya City, Japan

Annex A.1 Item  
(No & item designation)

### 4.32 Automatic Identification System (AIS)

Product Name

**FA-150**

Trade Name(s)

-

#### Specified Standard(s)

|                                                                    |                               |
|--------------------------------------------------------------------|-------------------------------|
| IMO MSC.74(69) Annex 3                                             | IEC 61993-2 (2001)            |
| ITU-R M.1371-1 (Class A)                                           | IEC 61162-1 (2000), -2 (1998) |
| IALA Technical Clarifications of Rec. ITU-R M.1371-1 (Edition 1.4) | IEC 60945 (2002)              |
| ITU-R M.825-3                                                      | IEC 61108-2 (2003)            |
| ITU-R M.1084-3                                                     |                               |

This certificate remains valid unless cancelled, expired or revoked.

Date of issue: 20.12.2004

Issued by: Bundesamt für Seeschifffahrt und Hydrographie  
Bernhard-Nocht-Str. 78, 20359 Hamburg, Germany  
Notified body 0735

Expiry date: 19.12.2009

Certificate No.: 734.2/0068/2004

USCG Approval No.: 165.155/EC0735/0068

This certificate consists of 2 pages.



by order  
  
Preuss



**Components necessary for operation:**

| component / AIS200 version              | part no.                 | remarks                                                                  |
|-----------------------------------------|--------------------------|--------------------------------------------------------------------------|
| AIS Transponder unit FA-150             | FA-1501                  | software release tested: 245-0018-01.xx                                  |
| Keyboard and display unit<br>FA-150 MKD | FA-1502                  | software release tested:<br>boot: 245-0020-01.xx<br>prog: 245-0021-01.xx |
| GPS Antenna                             | GSC-001 or GPA017S       | or equivalent                                                            |
| VHF Antenna                             | FAB-151D<br>or 150M-W2VN | or equivalent                                                            |

The internal GPS sensor of the FA150 is used as a backup sensor for position reporting (incl. RAIM).

**Optional components:**

| component                | part no.      | remarks                    |
|--------------------------|---------------|----------------------------|
| GPS/VHF combined Antenna | GVA-100 / DB1 | replaces GSC-001/ FAB-151D |
| AC/DC Power Supply Unit  | PR-240        |                            |

**Documentation:**

Operator's manual                      OME-44310-A Ed.1 Aug.2004  
Installation Manual                    IME-44310-A Ed.1 Jul.2004

**Limitations on the acceptance or use of the product: -****Places of production: -****Notes:**

The manufacturer shall inform Bundesamt für Seeschifffahrt und Hydrographie, as the notified body, of any modifications to the type-tested product(s) that may affect compliance with the requirements or conditions laid down for use of the product(s).

In case the specified regulations or standards are amended during the validity of this certificate, the product(s) must be re-certified before being placed on board vessels to which such amended regulations or standards apply.

The Mark of Conformity (wheelmark) may only be affixed to the type approved equipment, and a Manufacturer's Declaration of Conformity may only be issued, if the product quality system fully complies with the Marine Equipment Directive and is certified by a notified body against ANNEX B module D, E, or F of the Directive.

**Example for the Application of the "Mark of Conformity":**

xxxx      number of the Notified Body responsible for quality surveillance module  
yy        Last two digits of the year in which the mark is affixed.

**U.S. Coast Guard Approval:**

The Manufacturer is allowed to affix the U.S. Coast Guard approval number (USCG approval number) as allowed by the „Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment“ signed February 27<sup>th</sup>, 2004.

The AIS radio transmitter is required to be authorized by U.S. Federal Communications Commission (FCC).

**Notice on legal remedies available:**

Objection to this document may be filed within one month after notification. The objection must be filed in writing to, or put on record at, Federal Maritime and Hydrographic Agency, Bernhard-Nocht-Str. 78, 20359 Hamburg, Germany