



# 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 **4.32 Automatic Identification System (AIS)**  
(No & item designation)

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  
  
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**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 FA-150 MKD	FA-1502	software release tested: boot: 245-0020-01.xx prog: 245-0021-01.xx
GPS Antenna	GSC-001 or GPA017S	or equivalent
VHF Antenna	FAB-151D 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