



Bundesrepublik Deutschland

Federal Republic of Germany

BSH-Cert

Benannte Stelle – Navigations- und Funkausrüstung
beim Bundesamt für Seeschifffahrt und Hydrographie
Notified Body – Navigation and Radiocommunication Equipment
at the Federal Maritime and Hydrographic Agency



NOTIFIED
BODY
0735

EC TYPE EXAMINATION (MODULE B) CERTIFICATE

This is to certify that:

BSH-Cert, specified as a "notified body" under the terms of „Schiffssicherheitsgesetz“ of 09 September 1998 (BGBl. I, p. 2860) modified last 08 March 2012 (BGBl. I, p. 483), 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 and the last modification by Directive 2013/52/EU.

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

Applicant **Furuno Deutschland GmbH**
Address **Siemensstraße 33, 25462 Rellingen, GERMANY**

Annex A.1 Item (No & item designation) **4.7 Speed and distance measuring equipment (SDME)**

Product Name **DS-60**

Trade Name(s) **DS-60**

Specified Standard(s)

IMO-Resolution A.694(17)	IEC 61023 Ed.3.0, 2007
IMO-Resolution A.824(19)	IEC 60945 Ed.4.0, 2002 incl. Corr. 1, 2008
IMO-Resolution MSC.96(72)	IEC 62288 Ed.1.0, 2008
IMO-Resolution MSC.191(79)	IEC 61162-1 Ed.4.0, 2010

Based on the Directive 2012/32/EC, additional applied version: Directive 2013/52/EC
This certificate remains valid unless cancelled, expired or revoked.

Date of re-issue: **12 December 2013**

Issued by: **BSH-Cert**

Expiry date: **11 December 2018**

Bernhard-Nocht-Str. 78, 20359 Hamburg, Germany
Notified body 0735

Certificate No.: **4581/001/4072564/13**

USCG-Module-B No.: **165.105/EC0735** Unique Identifier: **4072564**

This certificate consists of 4 pages.



Kai-Jens Schulz-Reifer



Components necessary for operation:

See Annex to EC type examination (Module B) certificate 4581/001/4072564/13

Optional components for operation:

See Annex to EC type examination (Module B) certificate 4581/001/4072564/13

Approval Documentation:

See Annex to EC type examination (Module B) certificate 4581/001/4072564/13

Places of production:

Limitations on the acceptance or use of the product:

The equipment is approved as a device to indicate speed and distance over ground and through water

Notes:

The manufacturer shall inform BSH-Cert, 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.

U.S. Coast Guard Approval

This product has been assigned a U.S. Coast Guard Module B number (165.xxx/EC0735/Unique Identifier [if other than EC 0735: /Number of the notified body which certifies the quality assurance system]) to note type approval to Module B only as it pertains to obtaining U.S. Coast Guard approval as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Maritime Equipment" signed February 27th, 2004, and additional information given by U.S. Coast Guard by E-Mail 2010.[QB-S1]

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

ANNEX TO
EC TYPE EXAMINATION (MODULE B) CERTIFICATE
No.: 4581/001/4072564/13

Components necessary for operation:

Component	Type designation
Main and sub-display	DS-600
Distributor	DS-610
Transceiver	DS-620
Transducer	DS-630
Transducer	DS-631
Transducer tank	DS-660
Gate valve	DS-661

Optional components for operation:

Component	Type designation
Sub-display in watertight box	DS-605
Junction box	DS-640 / DS-645A / DS645B
Rate gyro	DS-670
Remote controller	RD-501
Dimmer controller	RD-502
Display	RD-20
Display	RD-50
Analogue Indicator	FL-200S-1
Analogue Indicator	FL-200S-1W
Analogue Indicator	FL-200S-2
Analogue Indicator	FL-200S-3
Analogue Indicator	SL-200-1
Analogue Indicator	SL-200-2

Approval Documentation:

Assessment Report No.: BSH/4612/4071804/11-1 (IEC 61162-1 Ed.4.0)
 Test Report No.: BSH/4612/4071804/11-2 (IEC 62288 Analogue Indicator)
 Assessment Report No.: BSH/4612/4071804/11-3 (IEC 61023 Analogue Indicator)
 Test Report No.: BSH/4612/4071196/09 (IEC 61023)
 Test Report No.: BSH/4612/4071196/09 (IEC 62288)
 Test Report No.: BSH/46162/0121508/09
 Test Report No.: BSH/46162/0121509/09
 Test Report No.: BSH/4612/4071589/10 (IEC 61023)
 Operators Manual DS-60 (No. DS60 OME_May-15-2009)
 Installation Manual DS-60 (No. DS60 IME_514)

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