



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 18 May 2011 (BGBl. I, p. 935), 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/EC.

Manufacturer **Furuno Electric Co., Ltd.**
Address **9-52 Ashihara-cho, Nishinomiya City, Hyogo. 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-80**

Trade Name(s) **----**

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 61162-1 Ed.4.0, 2010
IMO-Resolution MSC.191(79)	IEC 62288 Ed.1.0, 2008

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

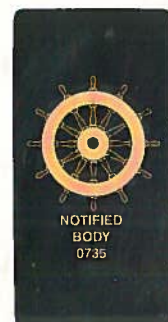
Certificate No.: **4581/001/4072565/13**

USCG-Module-B No.: **165.105/EC0735** Unique Identifier: **4072565**

This certificate consists of 2 pages.



Kai-Jens Schulz-Reifer



Components necessary for operation:

Designation	Type designation
Display unit	DS-800
Distribution Box	DS-801
Transceiver unit	DS-810
Transducer unit	DS-820

Additional optional Components:

Designation	Type designation
Terminal Box	DS-802
Digital Display	DS-830
Remote Distance Indicator	DS-840
Dimmer Box	MF-22L
Junction Box	CI-630
Transducer Seachest	DS-850 or DS-781 or DS-782 or DS-783 or DS-784 or DS-786
Remote Display	RD-20
Remote Display	RD-50

Approval Documentation:

Assessment Report No.: BSH/46121/4072208/12 Date: 2012-03-08 (IEC 61162-1)
 Assessment Report No.: BSH/4612/4071587/10-1 Date: 2010-03-01 (IEC 61023)
 Assessment Report No.: BSH/4612/4071587/10 Date: 2010-03-08 (IEC 61162-1)

Operator's Manual Doppler Speed Log DS-80 PUB. No. OME-72470 May 28, 2002
 Installation Manual Doppler Speed Log DS-80 PUB. No.IME-72470-D2

Places of production:

Limitations on the acceptance or use of the product:

Speed and distance measuring equipment for measuring speed 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.

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