



Maritime &
Coastguard
Agency

UK Approved Body Authorised
by the MCA

Certificate number: 75356/A0 UK

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*This certificate is not valid when
presented without the full attached
schedule composed of 7 sections*

Approved Body 8517 - UNITED KINGDOM MARINE EQUIPMENT APPROVAL

UK TYPE-EXAMINATION (MODULE B) CERTIFICATE

This is to certify that Bureau Veritas SA UK Branch Office did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended, subject to any conditions in the schedule attached hereto.

This certificate is issued to:

Jotron Skipper AS

Oslo - NORWAY

for the type of product

ECHO-SOUNDING EQUIPMENT

Skipper ESN200

Requirements:

SOLAS 74 Convention as amended, Regulations V/18, V/19 and X/3

IMO Res. MSC.36(63) -(1994 HSC Code)- as amended, 13

IMO Res. MSC.97(73) -(2000 HSC Code)- as amended, 13

IMO Res. A.224(VII)

IMO Res. A.694(17)

IMO Res. MSC.74(69) amended by MSC.115(73), Annex 4

IMO Res. MSC.191(79), MSC.302(87)

ISO 9875:2000 + /Corr. 1:2006,

IEC 60945 (2002) + /Corr. 1 (2008),

IEC 61162 series: IEC 61162-1 (2016) - IEC 61162-2 ed1.0 (1998-09) - IEC 61162-3 ed1.2 Consol. with am1 ed. 1.0 (2010-11) and am2 ed. 1.0 (2014-07) - IEC 61162-450:2018,

IEC 62288 Ed. 2.0 (2014-07).

IEC 62923-1:2018,

IEC 62923-2:2018.

The attached (schedule of approval) forms part of this certificate.

This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with.

This certificate will expire on: 01 Jul 2025

Issued by Bureau Veritas SA UK Branch Office

(Approved Body 8517)

At BV OSLO, on 17 Oct 2023,

Rune MARSTEIN

This certificate was created electronically and is valid without signature



Note 1: This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the approved body named on this certificate.

Note 2: During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards may change, therefore the product conformity may need to be re-assessed by the Approved Body.

Note 3: "The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-control phase module (D, E or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body."

Note 4: In case limitations of use apply, these should be indicated in the Annex.

This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Skipper ESN200 is echo sounding equipment for marine application.

| Description | Product part | Comment |
|-----------------------|----------------------|---|
| Graphic display | ESN200-SB | SW version: SW-M008-1.1.X.X HW version: CU-M001-ZB |
| Electronic unit | JB70E2-SA | SW version: SW-M010-1.1.X.X |
| Transducer | ETS50200 | Dual 50 and 200kHz Skipper transducer |
| | ETN050 | 50kHz Tokin Transducer |
| | ETN200S | 200kHz Tokin Transducer (small) |
| | ETN200 | 200kHz Tokin Transducer |
| | ETS050 | 50 kHz Skipper transducer |
| | ETS200 | 200kHz Skipper transducer |
| | ETN038 | 38kHz Transducer |
| | 200B-8B | Furuno 200kHz transducer |
| Optional Features | | |
| Remote dimming switch | IR31DIM | |
| Depth repeater | IR301 | |
| Multi repeater | CD401MR | |
| Network Switch | Moxa EDS-408A-MM-ST. | |

-X is non significant changes.

-The certificate is also valid for the echo-sounding equipment with the type designations :

Sitop Italia ESN200, Kelvin Hughes ESN200, Marine Technologies ESN200, Norwegian Control Systems ESN200

2. DOCUMENTS AND DRAWINGS :

2.1 - ESN200 Navigation Echo Sounder brochure, Ver. 2018-09-29, dated 29-09-2018.

2.2 - ESN200 Operation and Installation Manual, No. DM-G005 rev 2111 dated 22-07-2021.

2.3 - Multi-PanelPC 9inch touch display Datasheet, dated 21-02-2018.

2.4 - Multi-PanelPC 9inch touch display Drawings, No. CU-M001 Rev. 1246, dated 10-12-2014.

2.5 - ESN200 Echosounder Risk Assessment.

3. TEST REPORTS :

3.1 - Nemko Test report No. E18215.00, dated 27-09-2018.

3.2 - Nemko Test report No. E14223.00, dated 15-01-2015.

3.3- Skipper Performance test report for ESN200 Dual channel echosounder, dated 24-10-2018.

3.4 - Skipper ESN200 Dual channel echosounder BAM compliance test report dated 09/06/2021. Tests witnessed by Society Surveyor.

3.5 - Moxa EDS-408A-MM-ST Test Report Ref: TL18024 (MS TESTING) dated 04/01/2019.

3.6 - Moxa EDS-408A-MM-ST Test Report No: 17 A0322A0322R-ITCEP16V00 (DEKRA) dated 16/07/2018.

4. APPLICATION / LIMITATION :

4.1 - As per requirements of Regulations stated on front page of this certificate.

4.2 - IEC 61162-2 and IEC 61162-3 are not applicable.

4.3 - Only Hardware and Software successfully tested together in compliance with the regulations as referred to in page one, according to the declaration of the manufacturer are covered by this certificate.

4.4 - The approved equipment (ESN200):

- embeds only BAM function type P ;

- if installed on a BAM compliant bridge, shall use IEC 61162-450 digital interfaces for BAM harmonized presentation of its alerts within Navigation Cluster and shall not use non-BAM compliant alert communications, unless allowed by the Administration.

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - This certificate alone does not allow the applicant to issue the UK Declaration of Conformity and to affix the mark of conformity (United Kingdom conformity mark) to the products corresponding to this type. To this end, the production-control phase module D Production Quality Assurance or module E Product Quality Assurance or module F Product Verification of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended, is to be complied with and controlled by a written inspection agreement with an Approved Body.

5.2 - For information concerning the production phase modules, **Jotron Skipper AS** has declared the following manufacturing site:

Jotron Skipper AS
Enebakkveien 150,
0680 Oslo
NORWAY

6. MARKING OF PRODUCT :

Reference is made to the Merchant Shipping (Marine Equipment) Regulations 2016, as amended, Part3:

In particular Article 15.3 specifies that the United Kingdom conformity mark shall be followed by the identification number of the Approved Body involved in the production control phase (module D, E or F) and by the year in which the mark is affixed (4 digits or last 2 digits).

7. OTHERS :

7.1 - It is **Jotron Skipper AS**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

***** END OF CERTIFICATE *****