



Marine & Offshore

Certificate number: 29247/B0 MED

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

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Notified Body 2690 - MARINE EQUIPMENT DIRECTIVE 2014/90/EU

EC TYPE EXAMINATION CERTIFICATE

as per Module B of Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations and Commission Implementing Regulation (EU) 2017/306 of 06 Feb. 2017

This certificate is issued to:

John Lilley & Gillie Ltd
North Shields - UNITED KINGDOM

for the type of product

MAGNETIC COMPASS - CLASS A FOR SHIPS

MK2000S / Alphabinnacle H Binnacle Type A1

Sestrel SR4 Class A Compass

Azimuth Bearing Device (group 1) FW9011

Requirements:

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

SOLAS Reg. X/3

IMO Res. A.382(X), IMO Res. A.694(17), IMO Res. MSC.36(63) & MSC.97(73) -HSC codes-, 13

IMO Res. MSC.302(87), A.1021(26)

ISO 1069 (1973), ISO 25862 (2009)

IEC 60945 Ed. 4.0 (2002) + /Corr.1 (2008)

This certificate is issued on behalf of the French Maritime Authorities to attest that Bureau Veritas Marine & Offshore did undertake the relevant type-examination procedures for the product identified above which was found to comply with the relevant requirements of the Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations.


This certificate will expire on: 09 Oct 2022

For Bureau Veritas Marine & Offshore Notified Body 2690,

At BV LONDON, on 09 Oct 2017,

Spencer Yule



This certificate does not allow to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark ) to the products corresponding to this type. To this end, the production-control phase module (D, E or F) of Annex II of the Directive is to be complied with and controlled by a written inspection agreement with a notified body.

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 will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. Bureau Veritas Marine & Offshore is designated by the French Maritime Authority as a "notified body" under the terms of the French Regulations Division 140 Chapter 140-2. 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:

The Binnacle Outfits MK2000S and ALPHABINNACLE H are composed of:

1.1 - Main Unit

1.1.1 - Binnacle Stand

Binnacle Type A1 - Model: Mk2000 - Part No.FW9850

1.1.2 - Compass

Class A Compass - Model: Sestrel SR4 - Part No.FW9900
175mm Reflector Card

1.2 - Optional Parts

1.2.1 - Lighting

Lighting Control Unit - Part No. FW9862
Power Supply Inputs : 220 / 110V AC and 24V DC (main and emergency illumination)
Outputs : 24V DC to the Lighting assembly (two 15W Lamps) - Part No. WD1194.
Two level dimmer control.

1.2.2 - Correction Device

Quadrantal Corrector (pair) - Part No. FW9856
Alphatron Quadrantal Corrector Collar compatible with Quadrantal Collar Plates - Part No. FW9858
Flinders Plates Assembly - Part No. FW9857
Magnet Plate Assembly - Part No. FW9870

1.2.3 - Periscope Assembly

Periscope Assembly - Part No. FW9853
Maximum vertical length of 1.3m (2m if an optional lens is fitted to the binnacle).

1.2.4 - Azimuth Mirror

Azimuth Reading Device Group 1 - Part No.FW9011
Azimuth Mirror/Circle

2. DOCUMENTS AND DRAWINGS:

- 2.1 - Electrical & Mechanical drawings ref.A4-8000, A4-8001, A4-8002, A4-8003, A4-8004, A4-8005, A4-8006, A4-8007, A4-80011, A4-8012, A4-8013, A4-8014, A4-8016, A4-8017, A4-8018, A4-8031, A4-8033, A4-8034, A4-8037, A4-8038, A4-8043, A4-8060, A4-8061, A4-1042, A4-1119, A3-6038, A3-6028, A3-6030, A3-6031, A3-6039, A3-6040, A3-6044, A4-6045, A4-6046, A4-6047, A4-6048, A4-6052, A4-6056, A4-6052, A3-6064, A4-6066, A4-6067, A3-6068, A3-6069, A4-6070, A4-6072, A3-6073, A4-6074, A4-6076, A4-6077, A4-6079, A4-6097, A3-6101, A4-6149, A4-6150, A4-6151, A4-6154, A4-6165, A4-6184, A4-6194, A3-9118, 3478-A3-10, 3478-A3-2, 3478-A3-3 issued by John Lilley & Gillie Limited.
- 2.2 - Mk2000S Binnacle Outfit - Product Description, issued by John Lilley & Gillie Limited.
- 2.3 - Mk2000S Binnacle Outfit - Installation & operation manual, issued by John Lilley & Gillie Limited.
- 2.4 - Mk2000 Binnacle Manufacturing Route Cards (process instructions), issued by John Lilley & Gillie Limited.

3. TEST REPORTS:

- 3.1 - ISO 25862 Statement of Manufacturer or Importer on MK2000S Binnacle Outfit, issued by John Lilley & Gillie Limited and dated 10/05/2010
- 3.2 - Mk2000 performance test report according to ISO2269, issued by QINETIC (Compass Test Centre) - ref.00PC000454 - dated 04/01/2001
- 3.3 - Table showing equivalence of ISO 2269:1992 & ISO 25862:2009 for Binnacles, issued by John Lilley & Gillie Limited and dated 11/09/2012
- 3.3 - Sestrel SR4 performance test report according to ISO25862:2009, issued by QINETIC (Compass Test Centre) - ref.09PC000325 - dated 15/12/2009
- 3.4 - Environmental test report according to IEC60945 (Clause 8.3) & ISO25862:2009 (Clause B3.1.3 and clause B3.1.4) for Sestrel SR4 class A compass, issued by QINETIC (Compass Test Centre) - ref.QinetiQ/MS/EES/TC0904512 - dated 26/10/2009
- 3.5 - Type Approval Certificate No.DERA/MED/CTC/005 for Azimuth Reading Device Group 1 - Part No.FW9011, issued by Maritime and Coastguard Agency - UK - dated 01/11/2000
- 3.6 - Table showing equivalence of ISO 2269:1992 & ISO 25862:2009 for Azimuth Reading Devices, issued by John Lilley & Gillie Limited and dated 11/09/2012

4. APPLICATION / LIMITATION:

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

4.2 - On board installation & Maintenance requirements:

Each magnetic compass is to be properly compensated and its table or curve of residual deviations is to be available on board in the vicinity of the compass at all time.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - This certificate alone does not allow the applicant to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark) to the products corresponding to this type. To this end, the production-control phase module D "Production Quality Assurance" or E "Product Quality Assurance" or F "Product Verification" of Annex II of the Directive is to be complied with and controlled by a written inspection agreement with a Notified Body.

5.2 - Each Magnetic Compass intended to be fitted on board a ship registered with a national register adhering to the Directive shall be delivered with a Declaration of Conformity, which shall be signed by the manufacturer.

5.3 - Each equipment is to be supplied with manual (s) for installation, use and maintenance (cf. 2.3 above).

5.4 -For information concerning the production phase modules, **John Lilley & Gillie Ltd** has declared the following manufacturing site:

John Lilley & Gillie Ltd
8 Neptune Court Orion Business Park North Shields Tyne & Wear
UNITED KINGDOM

6. MARKING OF PRODUCT:

Reference is made to MED 2014/90/EU chapter 2.

In particular Article 10.3 specifies that the wheelmark shall be followed by the identification number of the Notified 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 **John Lilley & Gillie Ltd'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.

7.2 - This certificate supersedes the Type Approval Certificate No. 29247/A2 EC issued on 04 Jul 2016 by the Society.

*** END OF CERTIFICATE ***