



TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MERB00008KG
Revision No:
0

This Certificate is issued by DNV UK Limited based on authorisation of the Maritime & Coast Guard Agency (MCA) as an UK Approved Body to undertake conformity assessments on marine equipment in accordance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016 as amended.

This is to certify:

That the Magnetic compass – Class A for ships

with type designation(s)
C20

Issued to

AUTONAUTIC INSTRUMENTAL, S.L.
EI Masnou, Spain

is found to comply with the requirements in the following Regulations/Standards:

Regulation **MSN 1874 Amendment 8**,
item No. UK/4.1. SOLAS 74 as amended, Regulations V/18, V/19 & X/3, IMO Res. A.382(X), IMO Res. A.694(17),
IMO Res. MSC.36(63), IMO Res. MSC.97(73), IMO Res. MSC.302(87)

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2029-05-12**.

Issued at **London** on **2024-05-13**

DNV local unit:
Iberia CMC & NB



for **DNV UK Ltd.**

Approval Engineer:
Tommi Juhani Rifaat

Approved Body No.: **0097**

Mydlak-Röder, Christine
MER Service Responsible



**Maritime &
Coastguard
Agency**

UK Approved Body Authorised
by the MCA

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.

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.

"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. In case limitations of use apply, these should be indicated in the Annex.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

C20 is a Table top or reflector Class A magnetic compass with 125mm compass card diameter. To be used with BINNACLE TYPE A2.

Application/Limitation

Compass is to be installed according to manufacturer's instructions.

Type Examination documentation

DNV No	Drw No	Rev	Title
17		3.0	Manual: Autonautica, C20-00130 reflector compass Manual
16	2024-01.01		Report: Autonautica, ISO 25862 (2019) selected items Test Report
14	24/3640XXXX	2024-05-03	Report: Applus, Bitacora Type A2 Binnacle IEC 60945 clause 8.8 Rain and spray Test
8	FE OP-05.3 A	2023-09-02	Doc: Autonautica, Test bench Calibration Procedure and Results Report
7	C/13037411	2013-09-27	Report: Ita, EN 60945 Vibration test report
6	IN-00084/2014-E	2014-01-23	Report: Leitat, EN 60945 Solar Radiation test report
5	14/31700034M1	2014-06-03	Report: Applus laboratories, EN 60068-2 Temperature tests
4	E-08124.00007	2013-12-10	Report: Metaltest, EN 60945 Cyclic Corrosion Test
1			Doc: Autonautica, Drawings, Manuals, ISO 25862 Checklists

Tests carried out

- Performance testing: ISO 1069 (1973)
- Performance testing: ISO 25862 (2019)
- Environmental testing: IEC 60945 (2002) incl. Corr 1. 2008

Note: System does not issue alerts, hence, testing according to IEC 62923-1/-2 and IEC 61162-1 is deemed as not being applicable.

Marking of product

Marking in accordance to ISO 25862 (2019).

The name and contact address of the manufacturer and type designation of the product is to be affixed to the equipment in a clearly visible location. In addition the equipment shall be marked with serial number, power consumption and/or supply voltage.