



EC TYPE EXAMINATION (MODULE B)
CERTIFICATE No. MED201324CS/001

***This is to certify** that RINA Services S.p.A. (Notified Body No. 0474) did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Navigation Equipment requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of Regulation (EU) 2023/1667.*

<i>MED Item N°</i>	MED/4.23
<i>Description</i>	Magnetic compass Class B for lifeboats and rescue boats
<i>Type</i>	C10/C9/C8; C12/C12-110/C4/C12 PLUS; C15/C15-150; CHB/CSB/CHH; CHE
<i>Applicant</i>	AUTONAUTIC INSTRUMENTAL S.L. Carrer Agricultura 22 Local 6. El Masnou. 08320 Barcelona SPAIN
<i>Testing standards</i>	ISO 1069:1973, ISO 25862:2019, IEC 60945:2002 incl. IEC 60945 Corr. 1:2008.
<i>Reference standards</i>	SOLAS 74 Reg.III/34, IMO Res.MSC.48(66)-(LSA Code) IV, IMO Res.MSC.48(66)-(LSA Code) V, IMO Res.MSC.36(63)-(1994 HSC Code) 8, IMO Res.MSC.36(63)-(1994 HSC Code) 13, IMO Res.MSC.97(73)-(2000 HSC Code) 8, IMO Res.MSC.97(73)-(2000 HSC Code) 13.
<i>Issued in Genoa on</i>	<i>This Certificate is valid until</i>
April 30, 2024	April 29, 2029

This Certificate consists of this sheet plus an attachment

Giovanni Carratino

RINA Services S.p.A.



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Manufacturer

AUTONAUTIC INSTRUMENTAL S.L.

Place of Manufacturer

Carrer Agricultura 22 Local 6. El Masnou.
08320 Barcelona
SPAIN

Product description

Model C10/C9/C8	Spherical steering liquid-filled magnetic compass Type B Bulkhead or bracket mount compass with 12/24 V night lighting
Model C12/C12-C110 C4 - C12 PLUS	Spherical steering liquid-filled magnetic compass Type B Flushmount/bracket mount or wooden boxed compass with night lighting and compensation system (optional)
Model C15/C15-150	Spherical steering liquid-filled magnetic compass Type B Flushmount/deck mount compass with 12/24 V night lighting and B+C compensation system built-in
Model CHB/CSB/CHH	Flat steering liquid-filled magnetic compass Type B Binnacle/bracket mount or wooden boxed compass with night lighting (optional) and compensation system (optional)
Model CHE	Spherical steering liquid-filled magnetic compass Type B Deck mount or roofline mount compass with 12/24 V night lighting B+C compensation system built-in. Optional D correctors

Technical main characteristics

	Compass type and models				
	C10 C9 C8	C12 C12-C110 C4 C12 PLUS	C15 C15-150	CHB CSB CHH	CHE
Magnetic moment (Am²)	0.17	0.179	0.18	0.38	0.38
Type of liquid	Autonautic Fluid NC10				
Material of compass bowl	Polyamide 6	Polyamide 6	Polyamide/fiber glass	Polyamide/fiber glass	Polyamide/fiber glass
Compass card dimension (apparent)	60 (85) mm	60 (85) mm	70 (100) mm	100 (100) mm	100 (140) mm
Number of magnets	2	2	2	2	2
Weight (gr)	556	556	795	1250	1559

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Field of application

Magnetic compass Class B to be use on board of lifeboats and rescue boats according to LSA Code both in exposed and unexposed areas.

Reference documents

Product description drawings n° 0.5 , n° 0.4 , 0.6, n° 0.10 and n° 0.13 issued by Autonautic Instrumental S.L. and approved by RINA with n° CSST 11081, CSST 11082, CSST 11083, CSST 11084 and CSST 11085.

Tests carried out

Test report n° 14/31700034 issued by LGAI Technological Center S.A. and filed by RINA with n° CSST 11077;

Test report n° C/130374I1 issued by Instituto Tecnologico de Aragon and filed by RINA with n° CSST 11078;

Test reports n° E-08124.00001/00002/00003/00004/00005/0006 issued by Metaltest and filed by RINA with n° CSST 11086.

Test type approval report witnessed and filed by RINA with n° CSST 11080.

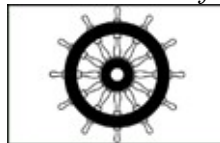
Rain and spray test witnessed by RINA and filed with n°CSST 22541.

This certificate annuls and replaces the certificate No. MED200319CS/002 dated 06/11/2019 due to renewal.



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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 Annex II of the Directive is fully complied with a written inspection agreement with a Notified Body



XXXX/YYYY

"WHEELMARK FORMAT"

XXXX *Notified Body number undertaking surveillance module*
YYYY *The year in which the mark is affixed*

General conditions for the approval

- a) The initial conditions verified by RINA at the time of the approval are to be maintained
- b) Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessment
- c) This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with RINA
- d) RINA personnel are to be allowed to witness during the performances of activities, upon their request
- e) The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules
- f) Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reapproved prior to it being placed on board vessels to which the amended regulations or standards apply.

Giovanni Carratino

RINA Services S.p.A.