



**EC TYPE EXAMINATION (MODULE B)  
CERTIFICATE No. MED200319CS/002**

***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) 2018/773.

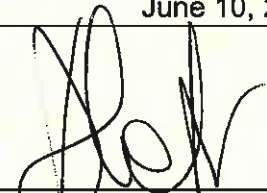
<i>MED Item N°</i>	<b>MED/4.23</b>
<i>Description</i>	<b>Magnetic compass Class B for lifeboats and rescue boats</b>
<i>Type</i>	<b>C10/C9/C8; C12/C12-110/C4/C12 PLUS; C15/C15-150; CHB/CSB/CHH; CHE</b>
<i>Applicant</i>	<b>AUTONAUTIC INSTRUMENTAL S.L.</b> CAMI DEL MIG 116, 1 PL POL. INDUSTRIAL LES CORTS CABRERA DE MAR 08349 (BARCELONA) SPAIN
<i>Testing standards</i>	<b>ISO 1069 (1973), ISO 25862 (2009), IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008)</b>
<i>Reference standards</i>	<b>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.</b>

*Issued in Genoa on*  
June 11, 2019

*This Certificate is valid until*  
June 10, 2024

*This Certificate consists of this sheet plus an attachment*



  
**Dino Ettore Cervetto**  
RINA Services S.p.A.





ATTACHMENT TO  
CERTIFICATE No. MED200319CS/002

Page 1 of 3

*Manufacturer*

**AUTONAUTIC INSTRUMENTAL S.L.**

*Place of Manufacturer*

CAMI DEL MIG 116  
1 PL POL. INDUSTRIAL LES CORTS CABRERA DE MAR  
08349 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 (Am <sup>2</sup> )	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



**ATTACHMENT TO  
CERTIFICATE Nr. MED200319CS/002**

**Page 2 of 3**

**Field of application**

Magnetic compass Class B to be use on board of lifeboats and rescue boats according to LSA Code

**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/13037411 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 ISO25682:2009 - witnessed and filed by RINA with n° CSST 11080.

**Remark**

This certificate supersedes and replaces certificate MED067214CS/002 issued on March 20, 2014 due to change of the trade name of the Applicant and/or the Manufacturer.





ATTACHMENT TO  
CERTIFICATE No. MED200319CS/002

Page 3 of 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 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 no 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.



  
Dino Ettore Cervetto

