



## EC TYPE EXAMINATION (MODULE B)

CERTIFICATE Nr. MED067214CS/002

*This is to certify, that RINA, specified as Notified Body N° 0474 by the Italian "Ministero delle Infrastrutture e dei Trasporti Direzione Generale per la navigazione ed il Trasporto Marittimo ed Interno" on 25 November 1998, 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) 96/98/EC as modified by Directive 2012/32/EU*

<i>MED Item N°</i>	<b>A.1/4.23</b>
<i>Description</i>	<b>Compass 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> C/ ITALIA 1 08320 EL MASNOU (BARCELONA) SPAIN
<i>Testing standards</i>	<b>ISO 25862 (2009)</b>
<i>Reference standards</i>	<b>Reg. III/34 of SOLAS 74 as amended, IMO Res. MSC.48 (66) -(LSA Code) IV,V, IMO Res.MSC.36(63)-(1994 HSC Code) 8,13, IMO Res.MSC.97(73)-(2000 HSC Code) 8,13</b>

*Issued at Genoa on*  
March 20, 2014

*This Certificate is valid until*  
March 19, 2019

*This Certificate consists of this sheet plus an attachment*



*on behalf of*  
  
**Franca Parisi**  
RINA Services S.p.A.



**ATTACHMENT TO  
CERTIFICATE Nr. MED067214CS/002  
Page 1 of 3**

*Manufacturer*

**AUTONAUTIC INSTRUMENTAL S.L.**

*Place of Manufacturer*

C/ ITALIA 1  
08320 EL MASNOU (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

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**ATTACHMENT TO  
CERTIFICATE Nr. MED067214CS/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 11079.

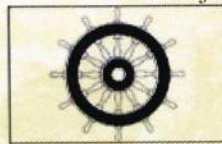
Test type approval report ISO25682:2009 - witnessed and filed by RINA with n° CSST 11080.





**ATTACHMENT TO  
CERTIFICATE Nr. MED067214CS/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 B of the Directive is fully complied with a written inspection agreement with a Notified Body*



**XXXX/YY**

**"WHEELMARK FORMAT"**

XXXX Notified Body number undertaking surveillance module  
YY Last two digits of year mark 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 reaproved prior to it being placed on board vessels to which the amended regulations or standards apply.



*on behalf  
of*

*[Signature]*  
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**Franca Parisi**