

Marine Equipment Directive EC Type Examination Module B Certificate

This is to certify that TÜV SÜD DANMARK ApS did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Marine Equipment Directive (2014/90/EU) requirements, under the following Implementing Regulation for the listed types of equipment

Implementing Regulation	(EU)2020/1170
Certificate Holder and Manufacturer	Ritchie Navigation 243 Oak Street Pembroke MA 02359 United States of America
EC Representative	Mr R. Kemperman IMDS De Amstel 38-40 8253PC Dronten The Netherlands
Product(s)	F-83-WM
Product Sector	Navigation Equipment
Product Type	MED/4.23 Magnetic compass Class B for lifeboats and rescue boats

and on the basis of the Technical Data and information detailed in the Annex to this certificate.

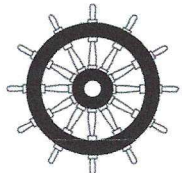
Valid from: 22 April 2021

(Signature)



Expiry Date: 21 April 2026

This certificate has been issued in accordance with the TÜV SÜD Testing and Certification Regulations and constitutes page 1 of the combined Certificate and Annex.
 The Conditions for the validity of this certificate are listed in the Annex.
 For further details, related to this certification please contact BABT@TUV-SUD.co.uk



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1 Equipment Description

Magnetic compass for lifeboats and rescue boats.

1.1 Models

Model	Description
F-83-WM	Base model (flush mount)
F-83-C-WM	Connector to light wire
F-83-L-WM	Additional artwork
F-83-M-WM	Additional artwork
F-83-SR-WM	Alternate colour lighting
F-83-SRC-WM	Connector to light wire, alternate colour lighting
F-83W-WM	White versions of above models
F-83W-C-WM	
F-83W-L-WM	
F-83W-SR-WM	
F-83W-SRC-WM	
B-81-WM	Bracket mount versions of above models
B-81-L-WM	
B-81W-WM	
B-81W-L-WM	
S-87-WM	Surface mount versions of above models ^{Note 1}
S-87W-WM	
S-87-L-WM	

2 Assessed Requirements

2.1 Implementing Regulation (EU)2020/1170

2.2 Compliance Requirements for MED/4.23

IMO Resolutions	International Testing Standards	
IMO Res. MSC.48(66)	ISO 1069:1973	Magnetic compasses and binnacles for sea navigation -- Vocabulary
	ISO 25862:2019	Ships and marine technology -- Marine magnetic compasses, binnacles and azimuth reading devices
IMO Res. A.694(17)	IEC 60945:2002 incl. IEC 60945 Corr. 1:2008	Maritime navigation and radiocommunication equipment and systems — General requirements

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3 Technical Documentation

3.1 Declaration of Conformity

Declaration of Conformity Master Voyager 2443-20 DRAFT Modified 2021-04-13

3.2 User Guide

Installation, Compensation and Maintenance Instructions for RITCHIE®
Compasses, Part No. SH-0221 Rev. E Modified 2021-03-19

3.3 Test Reports

010110 Dated 2001-04-17
4612/62122073/11 Dated 2011-09-14
Manufacturer Statement MBA09 Dated 2021-03-10
Statement of manufacturer F-83-WM Modified 2021-04-12
IEC 60945 Declaration F-83-WM Modified 2021-04-21

3.4 Build Status

3.4.1 Hardware

Drawing No. B-81-WM-P1 Dated 2016-04-19
Parts List F-83-WM Revision Level 1 Dated 2016-03-09

3.5 Notes

Note 1 ISO 25862:2019 testing of a Type A2 Binnacle is not covered by this type approval.

4 Conditions of Validity

This certificate ceases to be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with TÜV SÜD DANMARK ApS or a person appointed by TÜV SÜD DANMARK ApS to perform that role.

Should the specified regulations (internal conventions and the relevant resolutions and circulars of the IMO) or standards be amended and enforced through an Implementing Regulation during the validity of this certificate, the product(s) is/are to be reapproved prior to it/them being placed on the market or onboard vessels to which the amended regulations or standards apply.

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 and controlled by a written inspection agreement with a notified body.

Signature: Michelle Hardy

Date: 22/04/2021

(Michelle Hardy)

On behalf of TÜV SÜD DANMARK ApS