DIN ISO 22090-2:2015-11 (E)

Ships and marine technology - Transmitting heading devices (THDs) - Part 2: Geomagnetic principles (ISO 22090-2:2014)

Contents

Page

National foreword 3

National Annex NA (informative) Bibliography 4

1 Scope 5

2 Normative references 5

3 Terms and definitions 6

4 Performance requirements 7
4.1 Functionality 7
4.2 Information 7
4.3 Fore-and-aft mark 8
4.4 Heading information 8
4.5 Electrical wiring 8
4.6 Non-magnetic housing 8
4.7 Alert signal 8
4.8 Interface 8

5 Accuracy 9
5.1 General 9
5.2 Accuracy of transmission data 9
5.3 Static error (settle point error) 9
5.4 Dynamic error 9
5.5 Follow-up error 9
5.6 Settling time requirements to the directional system 9
5.7 Correcting the magnetic heading by magnetic variations 9
5.8 Adjusting of magnetic deviations and heeling error 9
5.9 Means of adjusting the deviation by vertical soft iron of the ship 10
5.10 Protection of correcting devices 10

6 Type tests 10
6.1 General 10
6.2 Transmission error test 10
6.3 Fore-and-aft mark test 11
6.4 Static error test 11
6.5 Follow-up error test 11
6.6 Settling time test 11
6.7 Tests for correcting the magnetic heading by magnetic variations 11
6.8 Tests for adjusting magnetic deviations 12
6.9 Tests for the means of adjusting the deviation by vertical soft iron 12
6.10 Dynamic accuracy 12
6.11 Interface test 12
6.12 Malfunction test 12

7 Marking and identification 12

Annex A (informative) Equivalent requirements in ISO 22090-2 and IMO Resolution MSC.116(73) 14

Bibliography 15