

ISO 22090-2:2014-03 (E)

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

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Performance requirements	3
4.1	Functionality	3
4.2	Information	3
4.3	Fore-and-aft mark	4
4.4	Heading information	4
4.5	Electrical wiring	4
4.6	Non-magnetic housing	4
4.7	Alert signal	4
4.8	Interface	4
5	Accuracy	5
5.1	General	5
5.2	Accuracy of transmission data	5
5.3	Static error (settle point error)	5
5.4	Dynamic error	5
5.5	Follow-up error	5
5.6	Settling time requirements to the directional system	5
5.7	Correcting the magnetic heading by magnetic variations	5
5.8	Adjusting of magnetic deviations and heeling error	5
5.9	Means of adjusting the deviation by vertical soft iron of the ship	6
5.10	Protection of correcting devices	6
6	Type tests	6
6.1	General	6
6.2	Transmission error test	6
6.3	Fore-and-aft mark test	7
6.4	Static error test	7
6.5	Follow-up error test	7
6.6	Settling time test	7
6.7	Tests for correcting the magnetic heading by magnetic variations	7
6.8	Tests for adjusting magnetic deviations	8
6.9	Tests for the means of adjusting the deviation by vertical soft iron	8
6.10	Dynamic accuracy	8
6.11	Interface test	8
6.12	Malfunction test	8
7	Marking and identification	8
10	Bibliography	11