

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 |