

ISO 8728:2024-01 (E)

Ships and marine technology - Marine gyro-compasses

Contents

	Page
Foreword.....	v
Introduction.....	vi
1 Scope.....	1
2 Normative references.....	1
3 Terms and definitions.....	1
4 Abbreviated terms.....	3
5 Construction requirements.....	4
6 Performance requirements.....	5
6.1 Accuracy in latitudes up to 60°.....	5
6.1.1 Settling time.....	5
6.1.2 Settle point error.....	5
6.1.3 Settling time under operational conditions.....	5
6.1.4 Settle point error under general conditions.....	5
6.1.5 Residual error in correction.....	5
6.1.6 Effect of alteration of speed.....	5
6.1.7 Effect of alteration of course.....	5
6.1.8 Accuracy on a Scorsby table.....	5
6.1.9 Synchronization between the master compass and repeaters.....	6
6.2 Interface.....	6
6.3 Alert management.....	6
6.3.1 General.....	6
6.3.2 Power failure in the gyro-compass (“Power fail” alert).....	6
6.3.3 Malfunction of the gyro-compass system (“System fault” alert).....	7
7 Type tests.....	7
7.1 General.....	7
7.2 Settling time test.....	7
7.3 Settle point error test.....	7
7.4 Settle point heading repeatability test.....	7
7.5 Settling time on a Scorsby table.....	7
7.6 Scorsby test.....	8
7.7 Intercardinal motion test.....	8
7.8 Repeater accuracy test.....	8
7.9 Speed correction test.....	9
7.10 General requirement test.....	9
7.10.1 General.....	9
7.10.2 Voltage variation test.....	9
7.10.3 Frequency variation test.....	10
7.10.4 Vibration tests.....	10
7.10.5 Temperature test.....	11
7.10.6 Damp heat test.....	11
7.10.7 Other tests.....	11
7.11 Interface test.....	11
7.12 Alert management test.....	12
7.12.1 Basic test for alert management.....	12
7.12.2 “Power fail” alert or output of a status signal on the EUT power.....	12

7.12.3	“System fault” alert.....	12
8	Marking	12
9	Information	12
Annex A	(normative) Requirements for ship surveyors for the installation of gyro-compasses and repeater compasses on board ships	13
Annex B	(normative) Alerts definition for gyro-compasses	14
Annex C	(normative) IEC 61162 interfaces for VDR and other external equipment	15
Bibliography	17