ISO 19697:2016-11 (E)

Ships and marine technology - Navigation and ship operations - Electronic inclinometers

Contents

Page

Foreword v

Introduction vi

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 2

4 Requirements 3
4.1 General 3
4.2 Functionality 3
4.3 Information 3
4.3.1 Actual heel angle and roll amplitude 3
4.3.2 Roll period 3
4.3.3 Roll peak hold value 3
4.4 Display 4
4.5 Alerts 4
4.5.1 Operational alerts 5
4.5.2 Functional alerts 5
4.6 Interface 6
4.7 Power supply 6

5 Accuracy 6
5.1 Actual heel angle, roll amplitude and roll period 6
5.2 Acceleration condition 6

6 Test methods and required results 6
6.1 General 6
6.2 Static actual heel angle test 7
6.2.1 Method of testing and required results 7
6.3 Dynamic actual heel angle test 7
6.3.1 Method of testing and required results 7
6.4 Long-term actual heel angle test 7
6.4.1 Method of testing and required results 7
6.5 Roll period test 8
6.5.1 Method of testing and required results 8
6.6 Connections to other equipment test 8
6.6.1 Method of testing and required results 8
6.7 Display test 8
6.7.1 Method of testing and required results 8
6.8 Operational alert test 10
6.8.1 Method of testing and required results 10
6.9 Functional alert test 11
6.9.1 Method of testing and required results 11
6.10 Roll peak hold value test 11
6.10.1 Method of testing and required results 11
6.11 Reset function of roll peak hold value test 11
6.11.1 Method of testing and required results 12
6.12 Power supply test 12

7 Installation position 12

8 Information 12

Annex A (informative) Relationship between transverse metacentric stability and measured natural roll period of ships in waves 13

Annex B (informative) Test facility type test methodology 16

Annex C (informative) IEC 611621 interface for VDR and other systems 17

Bibliography 19