

# DIN EN 62616:2010-09 (E)

## Maritime navigation and radiocommunication equipment and systems - Bridge navigational watch alarm system (BNWAS) (IEC 62616:2010); English version EN 62616:2010

---

Contents	Page
1 Scope.....	5
2 Normative references .....	5
3 Performance requirements .....	6
3.1 Functionality.....	6
3.1.1 Operational modes .....	6
3.1.2 Operational sequence of indications and alarms .....	6
3.1.3 Reset function .....	7
3.1.4 Emergency call facility and transfer of alarms .....	8
3.2 Accuracy .....	8
3.3 Security.....	8
3.4 Malfunctions, alarms and indications .....	9
4 Ergonomic criteria requirements .....	9
4.1 Operational controls .....	9
4.2 Presentation of information.....	9
4.2.1 Operational mode .....	9
4.2.2 Visual indications .....	9
4.2.3 First stage bridge audible alarm.....	9
4.2.4 Second and third stage remote audible alarm .....	9
5 Design and installation requirements .....	10
5.1 General .....	10
5.2 Specific requirements.....	10
5.2.1 System physical integrity .....	10
5.2.2 Reset devices.....	10
5.3 Power supply.....	10
5.4 Installation documentation.....	10
6 Interfacing requirements.....	10
6.1 Inputs .....	10
6.2 Outputs .....	11
7 Methods of testing and required test results .....	11
7.1 General .....	11
7.2 General requirements.....	11
7.3 Display of information.....	12
7.4 Operational tests .....	12
7.4.1 Operational modes .....	12
7.4.2 Dormant period.....	12
7.4.3 Alarms.....	12
7.4.4 Alarm alternatives.....	12

7.4.5	Description of reset function .....	12
7.4.6	Initiation of reset function .....	12
7.4.7	Continuous activation .....	13
7.4.8	Emergency call facility and transfer of alarms .....	13
7.4.9	Accuracy .....	13
7.4.10	Security .....	13
7.4.11	Malfunction .....	13
7.4.12	Operational controls .....	13
7.4.13	Operational mode .....	13
7.4.14	Visual indications .....	14
7.4.15	First stage bridge audible alarm .....	14
7.4.16	Second and third stage remote audible alarm .....	14
7.4.17	Design and installation general .....	14
7.4.18	System physical integrity .....	14
7.4.19	Reset devices .....	14
7.4.20	Power supply .....	14
7.4.21	Installation documentation .....	14
7.4.22	Interfacing .....	14
Annex A (normative)	Installation considerations .....	15
A.1	General .....	15
A.2	Location of reset function .....	15
A.3	Reset facilities .....	15
A.4	Visual indications .....	15
A.5	First stage bridge audible alarm .....	15
Annex ZA (normative)	Normative references to international publication with their corresponding European publications .....	17
	Bibliography .....	16
Figure 1	– Alarm sequence without acknowledgements .....	6