easy and comfortable use
simple connections to all peripheral equipment
easy to install - vessel crew / shipyard personnel installed the vast bulk of systems
intuitive system control - rotary encoder allows simple check of all connected devices and settings
type approved (wheel marked) acc. to latest International Standard IEC 62616
extensive BNWAS experience - first Type Approval awarded in 2005
BNWAS le guardian 2025
sample system for very large vessels

SOFTWARE SELECTOR SWITCH FOR STAGE #2 ALARM

- Menu allows Master to select which back-up OOW cabin alarm is active. Individual selection of any 1 cabin or combination of any 1, 2, 3, 4, or 5 cabins is available
According to NMEA protocol IEC 61162-1 system sends all relevant operating states to the VDR system.

System is able to receive external NMEA commands (reset, start / stop, em'cy call)
A Bridge Navigational Watch Alarm System (BNWAS) has to be installed as follows:

- Ships of 150 gross tonnage and upwards and passenger ships irrespective of size constructed on or after 1st July 2011;
- Passenger ships irrespective of size constructed 1st July 2011, not later than first survey after 1st July 2011;
- Ships of 3,000 gross tonnage and upwards constructed before 1st July 2011, not later than the first survey after 1st July 2012;
- Ships of 500 gross tonnage and upwards but less than 3,000 gross tonnage constructed before 1st July 2011, not later than the first survey after 1st July 2013;
- Ships of 150 gross tonnage and upwards but less than 500 gross tonnage constructed before 1st July 2011, not later than the first survey after 1st July 2014;
PIR motion sensor for „automatic“ count-down reset

- supports OOW by generating count-down reset
- intelligent sensor / software detects movement in bridge area without interference from typical ship movements
- complete sensor kit includes sensor with patch cable, distribution box and electronic module
- parallel operation of up to four sensor kits is valid

### BNWAS time table

<table>
<thead>
<tr>
<th></th>
<th>VISUAL / AUDIBLE STAGE #3 ALARM OFFICER’S AREA</th>
<th>VISUAL / AUDIBLE STAGE #2 ALARM OFFICER’S AREA</th>
<th>AUDIBLE STAGE #1 ALARM BRIDGE AREA</th>
<th>VISUAL PRE-ALARM BRIDGE AREA</th>
</tr>
</thead>
<tbody>
<tr>
<td>t [sec]</td>
<td><img src="https://i.imgur.com/3.png" alt="Diagram of time table" /></td>
<td><img src="https://i.imgur.com/4.png" alt="Diagram of time table" /></td>
<td><img src="https://i.imgur.com/5.png" alt="Diagram of time table" /></td>
<td><img src="https://i.imgur.com/6.png" alt="Diagram of time table" /></td>
</tr>
</tbody>
</table>

- for very large vessels max. additional 90 sec standard setting

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**BNWAS le guardian 2025**

PIR motion sensor
(12m, 90°)
WMS 220.2.0.0

safety on board
periphery equipment

- PIR motion sensor w. electronic module (12m, 90°)
  - NMS 220.2.0.0
- reset push button pre-alarm indication bridge area
  - WAR 220.1.0.0
- reset unit in wall box pre-alarm indication bridge & open bridge wings
  - WAR 220.2.0.0
- reset unit w. buzzer pre-alarm & alarm stage #1 open bridge wings
  - WAR 220.2.1.0
- extension sounder alarm stage #1 bridge area
  - WAB 220.2.0.0
- alarm stage #2 panel flush mounted officer’s cabin
  - WAP 220.2.0.0
- alarm stage #2 panel bulkhead mounted officer’s cabin
  - WAP 220.2.0.0
- NMEA expansion module for VDR link incl. selector for back-up OOW cabins alarm transfer & emergency call
  - NMEA 210.24.0.0
- reset unit in wall box
  - wall box to cover
    - 1x LCM connecting module
    - 1x NMEA expansion module
    - 2x motion sensor module
    - WBC 210.1.0.0
- alarm stage #3 panel flush or bulkhead mounted officer’s public area, corridor
  - WAP 220.4.0.0
- extension sounder alarm stage #1 bridge area
  - WAB 220.2.0.0
- alarm stage #2 panel flush mounted officer’s cabin
  - WAP 220.2.0.0
- alarm stage #2 panel bulkhead mounted officer’s cabin
  - WAP 220.2.0.0
- NMEA expansion module for VDR link incl. selector for back-up OOW cabins alarm transfer & emergency call
  - NMEA 210.24.0.0
- reset unit in wall box
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  - WAB 220.2.0.0
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- reset unit in wall box
  - wall box to cover
    - 1x LCM connecting module
    - 1x NMEA expansion module
    - 2x motion sensor module
    - WBC 210.1.0.0
- alarm stage #3 panel flush or bulkhead mounted officer’s public area, corridor
  - WAP 220.4.0.0

TECHNICAL DATA & FEATURES

- key-switch for lock / unlock
- 2 x 16 character blue light display shows all relevant device and alarm states
- rotary encoder with integrated push button - simple and effective for user
- centralized dimmer control function - allows adjustment of display and all reset units
- integrated buzzer, eight individual sound characteristics & volume adjustment
- system voltage: 24VDC nominal (18... 31,2V)
- connecting module designed for TS 35 terminal rail emergency call facility (manual release & alarm transfer)
- NMEA bi-directional serial interface (e.g. for VDR link)
- complies to IEC 62616
- MED type approved (wheel marked)
  certificate no.: GL 47015 - 12 HH