



WALKER P7007
BRIDGE NAVIGATIONAL WATCH ALARM SYSTEM



The Walker P7007 Bridge Navigational Watch Alarm System (BNWAS) combines the very latest in Bridge Watch Alarm System technology with the ease and functionality of the new integrated touch sensitive display. This compact, user friendly unit not only complies to meet the new IMO's Maritime Safety Committee regulations mandatory on all marine vessels over 150 gross tonnage by July 2014 but also grants the exceptional design; build quality and reliability of a company that has gained nearly 200 years experience in maritime engineering.

PURPOSE AND INNOVATION

The purpose of this Bridge Navigational Watch Alarm System (BNWAS) is to monitor bridge activity and detect operator disability which potentially could lead to marine accidents. The awareness of the Officer of the Watch (OOW) is monitored through an alarm reset or motion detector and the BNWAS automatically alerts the Master or other qualified OOW if the original OOW becomes incapacitated and unable to perform their duties.



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The Lilley and Gillie Walker P7007 BNWAS System offers a new element in Bridge Watch Alarm Systems in regards to the built in motion sensor. When the P7007 is correctly installed in the console in front of the OOW, the sensor will detect the upper half of the OOW's body only. This therefore means the risk of erroneous sensed movements from an incapacitated but moving OOW on the floor, is minimised. Individual wall or ceiling mounted sensors from other Bridge Monitoring Systems do not address this risk giving the Lilley and Gillie Walker P7007 BNWAS System the edge in regards to crew and vessel safety.

MAIN FEATURES

- A compact and stylish user friendly unit.
- Easily installed and incorporated into an established bridge system.
- Emergency call and remote reset facilities.
- Integrated motion sensor.
- Integrated back up battery pack in case of mains power failure.
- Visual and audio alarms that can be placed anywhere onboard.
- Display dimmer control.
- Unique touch menu display.
- Timed dormant countdown between 3-12 minutes.
- Multiple remote reset options.
- Key Switch operation.
- Variable alarm tone and volume.

SPECIFICATIONS

DISPLAY / CONTROLS

Digital: 1 x 256*64 pixel OLED
Graphic display
Illumination dimmable by 2 x integral touch switches
4 x "secret till lit" integral touch switches, accessed by key switch, for setup procedures. Integral "Alarm Reset" touch switch for OOW operation/PIR sensor for automatic monitoring of OOW movement.

PARAMETERS

Timed "dormant" countdown (3 to 12 minutes)
15 second visual alarm.
15 second 1st Stage audible alarm
2nd Stage audible alarm
3rd Stage audible alarm
"Power Fail" alarm
Emergency Call function.
Settable by key switch / menu access.
Display of active timer.
Countdown and alarm activations.



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STANDARDS

IEC 62616: 2010
IEC 61162-1: 2008
IEC 62288: 2008

4 x dry contact / 12VDC outputs:
for visual alarm / 1st stage audio alarm
/ 2nd stage audio alarm / 3rd stage
audio alarm.

MECHANICAL

Din 43700 Pattern: Din 196 x 144
Weight- BNWAS Unit 1.18 Kg approx
BNWAS Remote: 0.23 Kg approx
Case: Plastic
Outer Bezel: Polycarbonate; black
Front Window: Ally Carbonate: Printed
Case Back: Aluminium Alloy
Panel / Console mounting.

Power Fail: N.C. (O.C. on fail) and
Changeover outputs.

2 x IEC 61162-1 NMEA 0183 inputs
2 x IEC 61162-1 NMEA 0183 outputs

COMMUNICATION FORMAT

RS422

INPUT FORMAT

NMEA 0183 (HTC / HTD / VBW / VHW
/ VTG / EVE)

OUTPUT FORMAT

NMEA 0183 (ALR)

RJ45 Connectors for Remote Reset /
Repeater connection.

Terminals:

4 x dry contact / 5VDC inputs:
for 2 x remote resets / 1 x
unacknowledged alarm / 1 x
emergency call.

POWER REQUIREMENT

110/230VAC 50 / 60 Hz

COMPASS SAFE DISTANCE

Standard: 0.3m Steering: 0.3m

STANDARD SYSTEM

The basic BNWAS comprises;

- 1 x P7007 BNWAS UNIT
- 1 x P7011 STAGE 2 AUDIO SOUNDER
- 1 x P7012 STAGE 3 AUDIO SOUNDER
- 1 x P7010 EMERGENCY CALL UNIT

OPTIONAL EXTRAS

The following units can be ordered separately to provide system expansion:

- Walker P7008 Remote Reset / Repeater BNWAS Unit (Maximum of 4)
- P7010 Emergency Call unit



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- P7009 Remote Reset unit
 - P7011 Stage 2 Audio Sounder
 - P7012 Stage 3 Audio Sounder
- A suitable Junction Box (Shipyard supply) may be necessary in order to facilitate expansion of BNWAS.

The following systems, available from John Lilley and Gillie Ltd., can be integrated with the BNWAS to further expand the “automatic” operational capability of the system.

- Walker 7070 Mk2 Log System
- Yokogawa CMZ 700 Gyro Compass

IN ADDITION

WALKER P7008
BNWAS REMOTE RESET / REPEATER UNIT



Lilley and Gillie Limited introduce the newly developed Bridge Navigational Watch Alarm System Remote Reset / Repeater Unit, Walker P7008. The compact and attractive remote reset unit accompanies the main BNWAS unit system creating versatility and additional safeguards for the whole system. The unit mimics the main reset function of the main BNWAS unit and incorporates the unique touch sensitive buttons, compact digital display and individual dimmer buttons on each specific unit.



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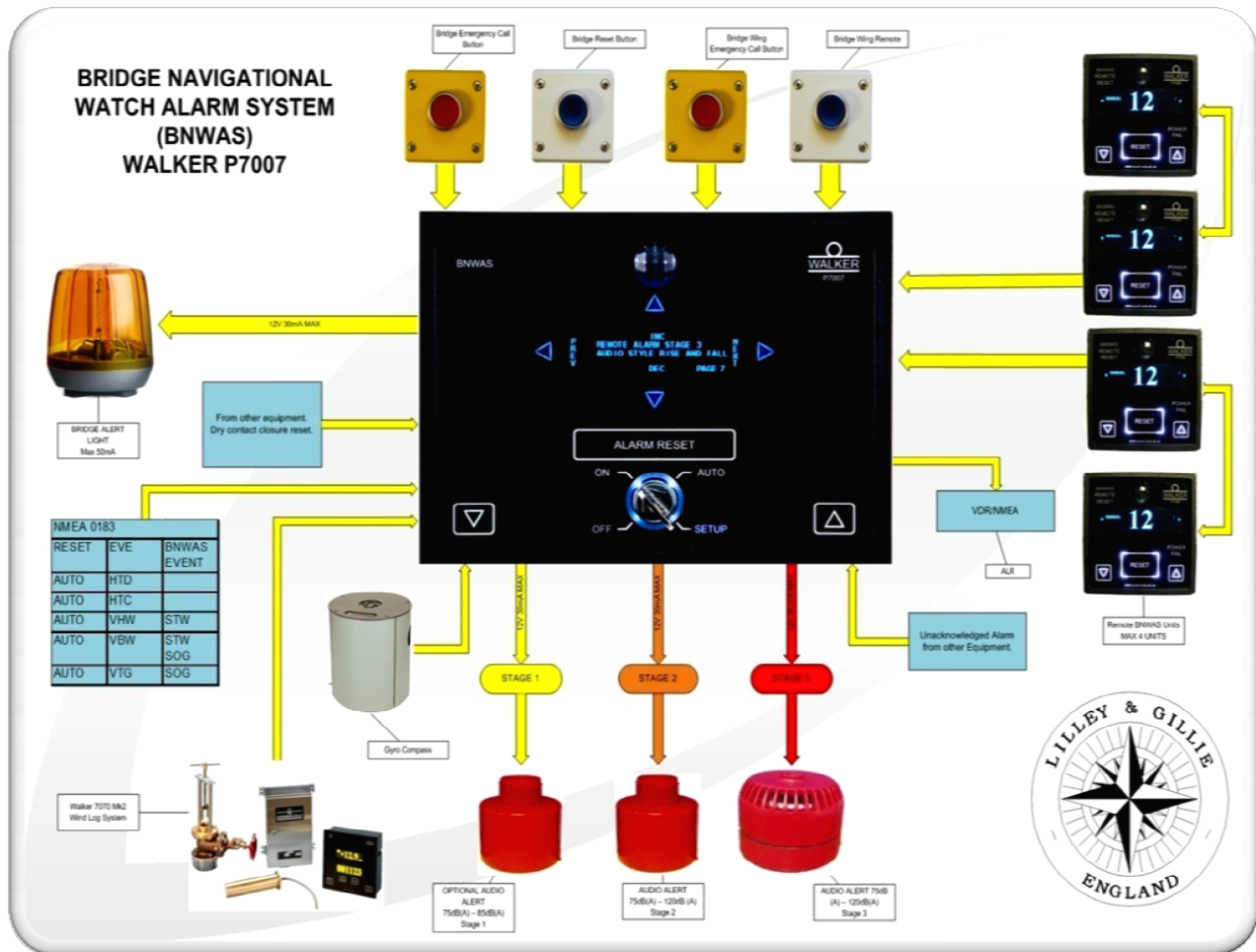
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Another additional feature is the built in motion sensor giving the unit the flexibility of acting as a remote sensor unit as well as a reset.

FUNCTIONAL DIAGRAM
 (Optional Extras Included)



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ALERT PERIODS

Dormant Period

The alarm shall remain dormant for a period of between 3 and 12 minutes. At the end of this period, the alarm system shall initiate a visual indication on the bridge.

First Stage Bridge Audible Alarm

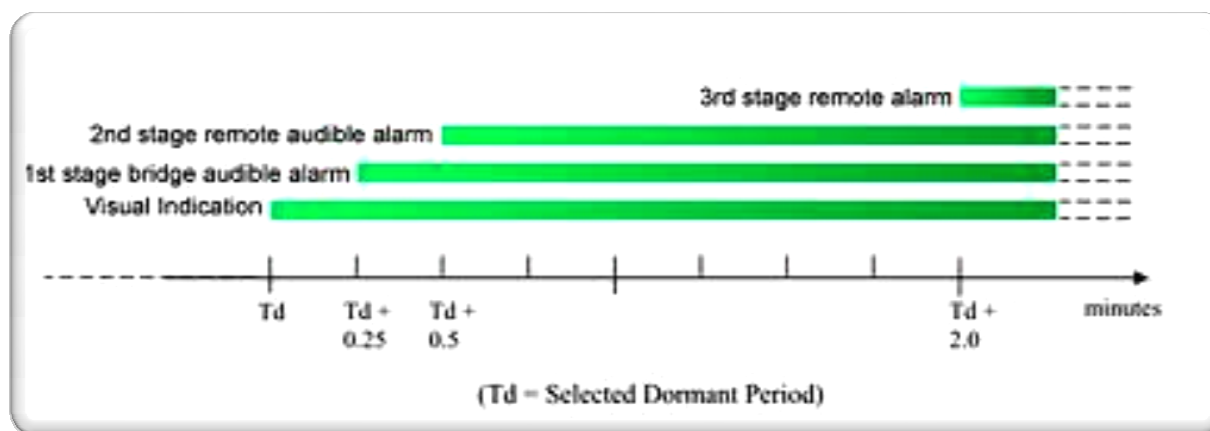
If not reset, the Lilley and Gillie BNWAS Walker P7007 sounds a first stage audible alarm on the bridge 15 seconds after the visual indication is initiated.

Second Stage Remote Audible Alarm

If not reset, the Lilley and Gillie BNWAS Walker P7007 sounds a second stage remote audible alarm in the back-up officers and/or Master's location 15 seconds after the first stage audible alarm is initiated.

Third Stage Remote Audible Alarm

If not reset, the Lilley and Gillie BNWAS Walker P7007, sounds a third stage remote audible alarm at the locations of further crew members capable of taking corrective actions 90 seconds after the second stage remote audible alarm is initiated.



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