

NAVITRON SYSTEMS LTD

NT990BNWAS Bridge Navigational Watch Alarm System to MSC. 128(75)

Classification Society (GL) Approved for compliance with IMO Resolution MSC. 128(75) the Navitron NT990BNWAS is available as a basic system to operate proprietary alarm units etc. or, as an expanded system complete with selector units and individual cabin and /or crew call sounders. The resultant alarm system provides a regulation safety monitor requiring regular acknowledgement (Reset) by the duty watch personnel at time intervals between 3 and 12 minutes.



Model NT990BNWAS Display Unit

Dims 144mm x 144mm x 53mm (depth)

Once activated, completion of the specified timeout period (3 - 12 mins) will automatically generate a Bridge visual alarm (15 secs) followed by a Bridge audible alarm (15 secs) which is tone and volume adjustable during installation.

Alarm cancellation and commencement of a new timing period will occur whenever the BNWAS 'Reset' button is operated on the main unit or other Wheelhouse/ Bridge located Reset units.

Failure to 'Reset' the system during the 30 second Bridge visual/ audible alarm period will result in automatic 'Officer Call' alarm activation which, if not acknowledged within a maximum period of 3 minutes will automatically be followed by the generation of 'Crew Call' alarms.

In the event of a sudden crisis situation requiring immediate Officer assistance, the NT990BNWAS also features an 'Emergency Call' facility which may be operated at any stage of the timing cycles.

Further built in security and error management provisions include 'Tamper' and 'Power Fail' alarm indications fully commensurate with MSC. 128(75).

The NT990BNWAS is available in basic and expanded system forms to suit vessels of all types and tonnages and can be operated from 115 / 230VAC (DB2) and 24Vdc (DB 1) ships main power supplies as required.

The basic NT990BNWAS configuration is shown overleaf.

The expanded NT990BNWAS configuration is shown on the leaflet entitled "NT990BNWAS Expanded Bridge Navigational Watch Alarm System"

- **Work Mode Selectable: -**
(Permanently 'ON', Permanently 'OFF' or Automatic 'AUTO')
- **Time Selectable: -**
(3 mins to 12 mins in 1 min steps confirmed by LED display)
- **Keyswitch Security Protected: -**
(Work Mode and Time change by key holder only)
- **Alarm Status Displays: -**
(All Alarm stages LED displayed)
- **Fail Alarm Status Displays: -**
(All failure modes LED displayed)
- **Remote Alarm Unit Facilities: -**
(All Alarm stages accompanied by voltfree closing contact)
- **Emergency Call Facility: -**
(Immediate Officer assistance request signalled)



Optional Remote Reset Unit

Dims 58mm x 64mm x 35mm (depth)



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NT990BNWAS

Outline Specifications

| Certification Standards | | |
|----------------------------------------------------------------------------|--|--|
| BSH (Germany) & Germanischer Lloyd Type Tested and Approved to MSC.128(75) | | |

| Inputs: - | | |
|-----------|--------------------------|------------------------------------------------------|
| Type | Supply Voltage | Power |
| BNWAS / 1 | Primary 24Vdc (18-36Vdc) | 2.5W to 3.8W (max illum) + 1W per Remote Reset |
| | Emerg 24Vdc (18-36Vdc) | |
| BNWAS / 2 | 115/230VAC 50/60Hz | |
| | Backup 24Vdc (18-36Vdc) | |
| | Emerg 24Vdc (18-36Vdc) | |

| Auto (Remote) Activation | |
|----------------------------------|---------------------|
| Two Opto isolated input types: - | |
| NMEA sentence \$XXHTD | 4800 or 38,400 baud |
| Analogue 11-40Vdc | +ve/-ve Switchline |

| Operator Controls | | |
|---------------------|---------------------------------------------------------------------------|------------------------------|
| Time | 3 to 12 minutes | Keyswitch security protected |
| Work Mode | Selectable 'ON', 'OFF' or 'AUTO' Mode | |
| Illum | Variable Red Backlight | Keypad |
| Reset | Cancels all alarms and resets timing cycles | Pushbutton |
| Emergency Call | Officer Assistance | Protected Pushbutton |
| Reset (Remote Unit) | Cancels alarms / Restarts timing / adjusts Remote unit illumination level | Pushbutton |

| Outputs: - | | |
|------------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------|
| Alarm | | |
| Bridge Visual (15 secs) | LED + volt free N/O contact | Tone & Volume installation adjustable |
| Bridge Audible (15 secs) | LED + volt free N/O contact rated 5A @ 30Vdc / 220VAC | |
| Officer Call (90 – 180 secs) | LED + volt free N/O contact | 90, 120, 150, 180 secs installation adjustable |
| Crew Call (Until Reset) | LED + volt free N/O contact | Can be combined with Officer Call |
| AC Power Fail (BNWAS 2) | Status LED | Volt free N/O contact rated 5A @ 30Vdc/220 VAC for ext. console malfunction alarm |
| DC Power Fail | Status LED | |
| Computer Fail | Status LED | |
| Tamper | Status LED | To external Fail Alarm |
| Complete Power Fail | Volt free S/P C/O contact | |

| Compass Safe Distance (CSD) |
|-----------------------------|
| 0.2m (All BNWAS units) |

| Operating Temperature Range |
|-----------------------------|
| -15 to +55°C |

