KONGSBERG

BWMS

Bridge Watch Monitoring System

General description

Our navigator safety system is designed to monitor bridge activity and alert the master or other qualified navigators if the bridge becomes unattended. The system first alerts the officer of the watch through local alarm indication at the bridge unit and, if he is not responding, then alerts the master or other qualified officer. The system conforms to the requirements of IMO resolution MCS.128(75) Performance standards for a Bridge Navigational Watch Alarm System (BNWAS) and the bridge class notations for “one-man bridge operation”. The system is designed using standard modules and software, and can be adapted to all ship types.

Functions

The Bridge Watch Monitoring System serves the following purposes:

- **Central bridge alarm panel** provides visual and audible alarms and warnings. These are initiated by systems and individual navigation equipment serving primary bridge functions.
- **Bridge watch monitoring** feature for detection of unattended bridge or operator disability based on interval checking.
- **Alarm transfer** to specific locations outside the bridge to alert and call the master and back-up navigator(s), automatically initiated in case the bridge alarms are not attended to or an operator disability is detected.
- **Call back-up navigator** for purpose of manual and instant initiation of alarm transfer from bridge for alert and call of master and back-up navigator(s).

Operation

The following functions are available from the bridge panel:

- System on/off (password protected
- Adjust system timers (password protected)
- Audible and visual alarm indications
- Keys for sound off and acknowledge of alarms
  Selection of back-up navigator on duty
- Call of back-up navigator

Setup

The system is pre programmed with SW from Kongsberg Maritime as. The operator will be able to set up a Bridge Watch Monitoring System and define numbers of navigators, alarm description and alarm group description from the MOS. This
can easily be done by following a set-up document. No commissioning tools are needed.

Specifications

Panel mounting

Bracket for table, ceiling or wall mounting is included. Flush mounting is done by using screws fitted behind removable corner covers.
The distributed processing units are mounted inside a cabinet or console.

Power requirements

Supply voltage: 18 - 32 VDC, ±5% ripple
Power consumption: 26W (typical)

Environmental requirements

Operating temperature: -15°C to + 70°C
Maximum humidity: 96% no condensation

EMC properties

According to IACS E10, IEC 60945 rev. 4

Type approval

DNV, BV,GL, RINA, NK, ABS, KR, PRS, MRS (Russia), CCS (China)

For more information refer to

AD-0282 Distributed processing unit - RDi-32
AD-0283 Distributed processing unit - RDo-16
AD-0424 Midi operator station - MOS-33
AD-00479 Power Switch Over Unit (PSO
AD-00482 BWM Setup manual for end user.