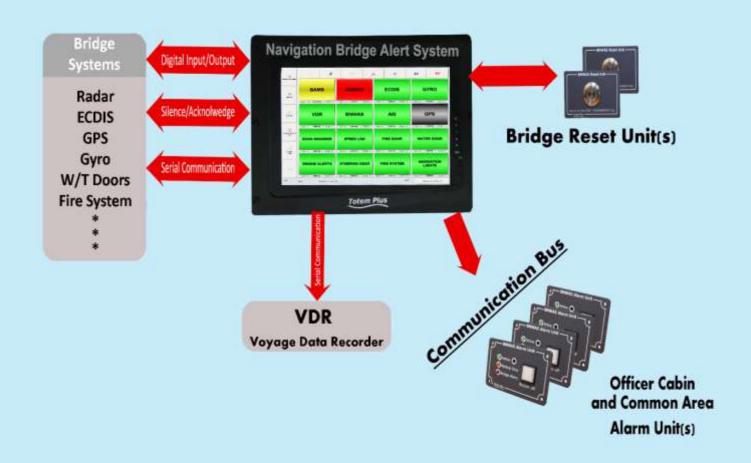
NBAS: INTEGRATED BNWAS+BAMS The First Step Towards Unmanned Bridge!

Totem INBAS (Integrated Navigation Bridge Alert System) is an integration of Totem BAMS (Bridge Alert Management System) and Totem BNWAS (Bridge Navigational Watch Alarm System). The integrated INBAS presents bridge alarms and warnings on one central panel, allows silence and acknowledge from one central location, and at the same time serves as fully approved BNWAS.

The system is DNVGL type-approved and complies with the latest BAMS and BNWAS standards: IEC62923:2018 - Bridge Alert Management Standard, MSC.128(75)- Performance Standard for Bridge Navigational Watch Alarm System, IEC62616: 2010, MSC.302(87), IEC62288:2014, IEC61162-1:2016. INBAS improves situation awareness in the bridge operation and due to BNWAS integration will serve as the first link between Bridge systems and Officer Cabins when Periodically Unmanned Bridge will be allowed by IMO and administrations.

INBAS will help shipyards and owners to reduce cost and simplify installation. Its main benefit onboard will be the increase of navigation safety due to the ease of alarm handling



E-MAIL: TOTEMPLUS@TOTEMPLUS.COM



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Advantages

- ✓ Enables Silence and Acknowledge of audible alarms from the INBAS touch screens (no more running around the bridge).
- ✓ IINBAS covers all BNWAS functions no need for a separate system.
- ✓ Easy view of Bridge equipment status in one glance Display on the IINBAS shows status of all bridge systems.
- ✓ History (one year) log of all system events (system ON/OFF, fault resets, alarm log, user activity logetc.) allows better preventive maintenance
- ✓ IINBAS Decision support information helps to take the right actions when needed.
- ✓ Situation Awareness in the bridge is greatly improved with INBAS features.

Features and Technical Specifications

- ✓ Acknowledge of alarms using two-way communication with all bridge systems
- ✓ Up to 16 serial ports, 120 digital inputs (DI), and 120 digital outputs (DO)
- ✓ Easy Installation: All Cabin units are connected on one single communication bus (Daisy-Chain)
- ✓ Advanced Motion Detection: Unique dual technology (Microwave and Infra-Red), 360-degree coverage, ceiling mounted with extensive bridge coverage by the minimum number of sensors
- ✓ Each Cabin Alarm Panel is equipped with Backup Duty, Bridge Alarm indication and local silence
- √ 9.7" color touch screen
- ✓ Several working stations (optional)
- ✓ Downloading of log files to an external media (via USB)
- ✓ Expandability and Flexibility on input/output configuration
- ✓ Pager system connection/SSAS/ General Alarm (optional)



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