

SEAB MARINE

Tank Warning Alarm (TWA) System.



SEAB MARINE

SEAB Marine has launched a new safer workplace as a result of the introduction of a new

Tank Warning Alarm System - TWA

SEAB MARINE

The TWA system is developed to dramatically increase the safety when entering enclosed spaces aboard ships,
IMO Resolution A.1050(27)

SEAB MARINE

- “ **TWA** is a system for communication between the Bridge (OOW) and the operator working in enclosed spaces aboard ships.
- “ It allows the operator in the tanks to call for help if need is and also for the OOW at the Bridge to see that there are movements in the enclosed space.
- “ The OOW can also call for evacuation, if that should be needed.

SEAB MARINE

The TWA system consists of three parts:

- ” **The Control Unit TWA-1001,**
- ” **The Alarm Unit TWA-1003 and**
- ” **A Voltage Converter TWA-1002.**

These parts make a complete

Tank Warning Alarm System and have to be connected via cables.

Optionally, communication between the Voltage Converter and the Control Unit can also be done wireless.

SEAB MARINE

CONTROL UNIT TWA-1001

The unit has a built in Touch Screen for the operation of the system.



SEAB MARINE

CONTROL UNIT TWA-1001

- “ The unit has a built in Touch Screen for the operation of the system.
- “ On/Off - Setting of Alarm Delay – Backlight - Showing remaining time
- “ “Order to evacuate”: The EVACUATE button on the Control unit will set off the dedicated siren and the flasher on the Alarm unit, showing EVACUATE.

SEAB MARINE

- “Dead Man’s Alarm”: When system is activated, there is a timer counting down 12 minutes (settable 2-12 minutes). When the time has expired, the flasher will switch on at the Alarm unit. After another 30 seconds the buzzer on the Control unit will sound as well as the siren on the Alarm unit. Released alarm is reset by pushing button on Alarm unit or on the Control unit. Timer is restarting upon pressing the pushbutton shortly or moving in front of the Motion Sensor on the Alarm unit.

SEAB MARINE

ALARM UNIT TWA-1003



SEAB MARINE

ALARM UNIT TWA-1003

The Alarm Unit is equipped with:

- “ Motion Sensor to acknowledge that there are movements around the unit.
- “ A flasher and a siren to get the operators attention.
- “ A reset and emergency call button.
“Emergency call”: By holding the reset button on the Alarm Unit for 3 seconds, the buzzer will sound in the Control unit. This way the operator can call for attention.

SEAB MARINE

- “ A strong siren and a flashing **EVACUATE** in case the OOW wants the operator to evacuate.
- “ The whole unit is fixed to the bulkhead with magnets.
- “ Prepared for working light that is fixed in different positions with the help of magnets (optional).

SEAB MARINE

VOLTAGE CONVERTER TWA-1002



SEAB MARINE

VOLTAGE CONVERTER TWA-1002

The Voltage Converter is to be placed at the manhole on the deck above the enclosed area in order to:

- “ Supply the Alarm Unit with 24VDC.
- “ Keep contact between the Control Unit and the Alarm Unit.

SEAB MARINE

OPTIONAL

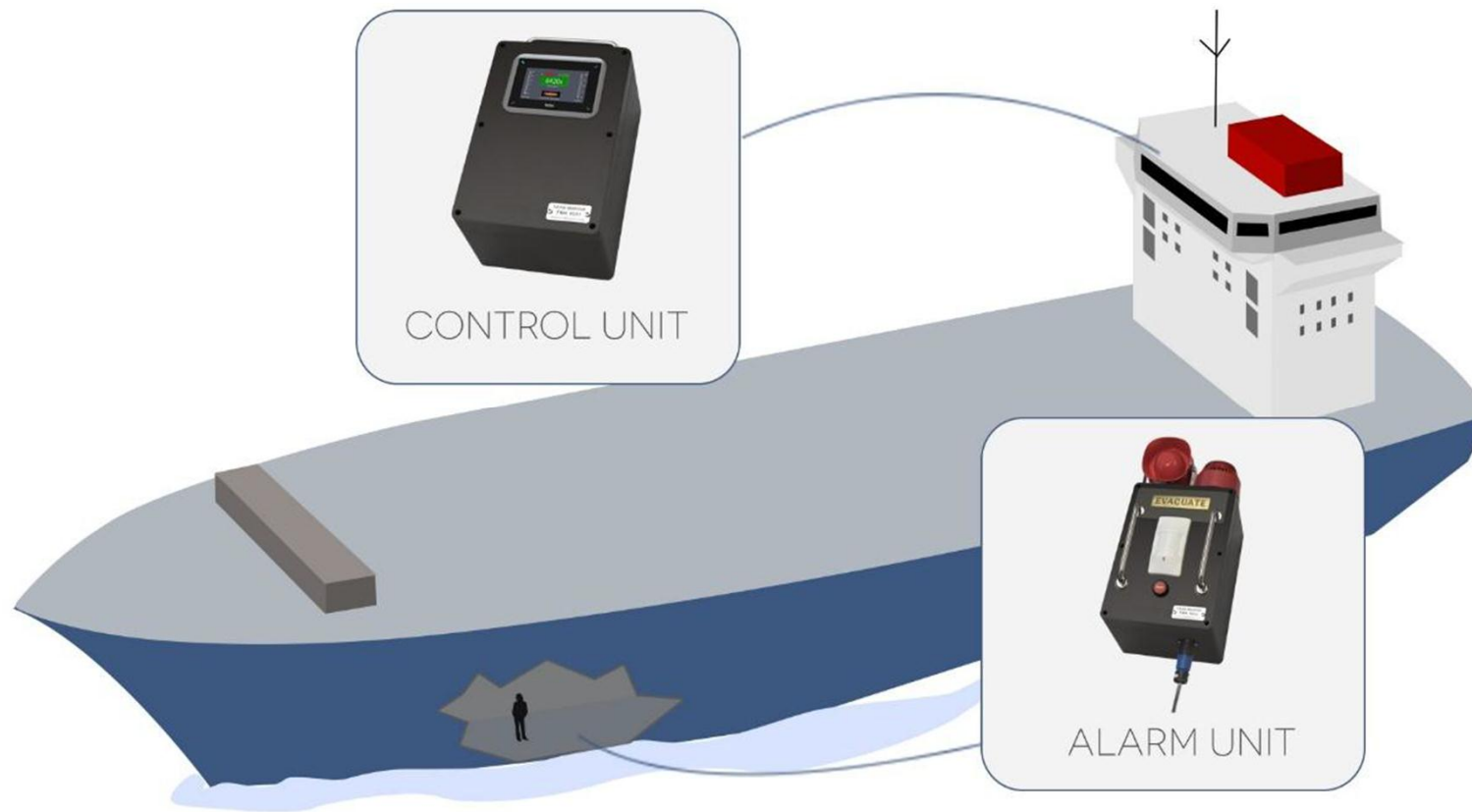
- “ Communication cables, 25 m each, with connectors.
- “ Working light, 2 pcs, LED with magnets.



- “ Wireless communication between the Control Unit and the Voltage Converter.

SEAB MARINE

We have developed a safer workplace!



SEAB MARINE

Keeping ahead through technology!