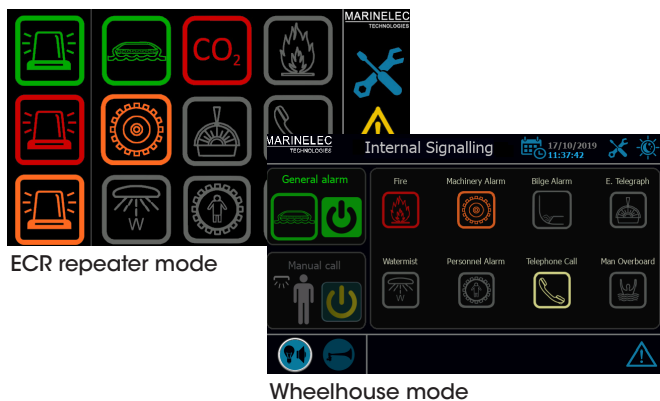




AVASXM

Audio visual alarm sequencer



PRESENTATION

► **AVASXM** is an audible and visual alarm sequencer which functions are:

- General alarm
- Control of whistle and foghorn
- Management of signals from and to Public Address System
- Control of alarm light columns

► Its 7" color touchscreen user interface enables a clear and precise display of the control functions.

► AVAS is designed and Bureau Veritas approved to ensure the perfect management of the ship's audible and visual signals.

FUNCTIONAL CHARACTERISTICS

Display

- The display is provided by a 7" colour touch screen (AVAS_HMI which can be supplemented by 2 other screens (for large wheelhouse) or a specific screen for ECR).

Equipment

- **AVAS** is a modular system with up to 64 inputs/outputs, composed of an AVAS_CPU processor module with 8 inputs, 3 outputs and 1 to 7 expansion modules to extend the product capacity according to the needs of each vessel by other digital inputs/outputs.

AVAS_CPU

- Central processor of the system for I/O processing
- Management of the 2 power sources (main/emergency)
- Switched 24DC output for AVAS_HMI power supply
- 8 configurable digital inputs
- 3 configurable digital outputs
- 1 system fault output
- 1 output 24DC for whistle control

Functions

- Generation of sound signals for the whistle (7 standard sequences + 1 programmable).
- Management of the audible and visual signals of internal alarms for flashing light / siren (1, 2 or 3 tones) and pictograms of the information light columns (with priority management).
- Integrated library of standard pictograms + 3 configurable pictograms (with different priorities).
- Manual control from the display (pre-programmed sequences).
- Management of signals from and to the «Public address system».
- I/O signal management by group (max. 4).
- Functioning with 3 screens (2 wheelhouses or large wheelhouse) or ECR remote panel.
- Sequence activation log.
- Integrated and remote test functionality.



APPROVALS

- Bureau Veritas

In compliance with COLREG 72 and IMO res.A1021 (26)

AVAS_HMI

- 7" touch screen display + HB option
- Integrated overview and quick function buttons.
- Light dimming + day/night mode
- Multi-language display (French, English, Spanish).
- Protected menu for setting up integrated I/O: channel assignment, input/output types.

AVAS_8DI

- 8 digital inputs
 - Configurable N.O./N.C.
- Examples of use:
- Alarm information (general alarm, fire alarm, engine alarm, etc...)
 - «Public address» input
 - Manual whistle control input

AVAS_8DO

- 8 digital outputs
 - Switching capacity of 1A@24VDC
 - N.O. and N.C. contact provided
- Examples of use:
- Pictogram control
 - 2 or 3 tone siren control
 - Two-color or three-color flashing light control
 - Whistle control
 - Public address (alarm sequence running)
 - Manual call



_ MECHANICAL CHARACTERISTICS _



Dimensions (LxIxH) and weights

- ▶ AVAS_HMI: 176 x 135 x 29 + 5 mm 1.0 Kg
- ▶ AVAS_HMI_HB: 176 x 135 x 47 + 8 mm 1.3 Kg
- ▶ AVAS_CPU: 168 x 133 x 40 mm 0.5 Kg
- ▶ AVAS_8XX: 51.5 x 133 x 40 mm 0.2 Kg

Mounting

- ▶ AVAS_HMI: Built-in mounting in console / cabinet
- ▶ AVAS_CPU / AVAS_8XX: Symmetrical DIN rail mounting

_ ELECTRICAL CHARACTERISTICS _

Main power supply

- ▶ 9 - 32 VDC

Emergency power supply

- ▶ 9 - 32 VDC

Power supply switchover

- ▶ Automatic with alarms

Power supply protection

- ▶ By diode and fuse

Max. consumption @ 12VDC

- ▶ AVAS_HMI : 0.5A
- ▶ AVAS_CPU : 0.25A
- ▶ AVAS_8DI : 0.22A
- ▶ AVAS_8DO : 0.22A
- ▶ AVAS_HMI_HB: 1.4A

Max. consumption @ 24VDC

- ▶ AVAS_HMI : 0.3A
- ▶ AVAS_CPU : 0.2 A
- ▶ AVAS_8DI : 0.11A
- ▶ AVAS_8DO : 0.1A
- ▶ AVAS_HMI_HB: 0.7A

Connections

- ▶ Coded pluggable terminal blocks
- ▶ Max.section cable
1.5mm² (power supplies)
1mm² (inputs-outputs)

Output capacity

- ▶ Power supply output (CPU) : 1.5A
- ▶ 24VDC output (CPU and HMI) : 0.5A
- ▶ Digital outputs (CPU and _8DO) : 1A @24VDC

REFERENCES & OPTIONS

- ▶ AVAS_HMI 7" color touch screen interface (Supplied with 3m cable for quick connection to AVAS_CPU)
- ▶ AVAS_HMI_HB 7" high brightness colour touchscreen interface
- ▶ AVAS_CPU Processor module
- ▶ AVAS_8DI 8 digital inputs expansion module
- ▶ AVAS_8DO 8 digital outputs expansion module
- ▶ LICSW_AVAS AVAS License

Optional references are available to enable a quick and complete installation:
(audible and visual devices, light columns, sounder beacon, sirens,...)



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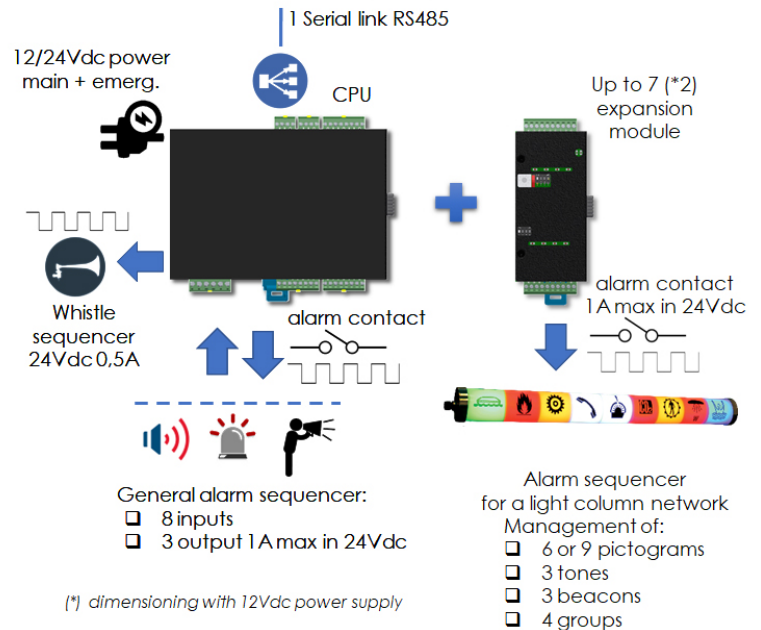
sail safely

CONNECTION OVERVIEW

Up to 3 (*1) touch screens



Wheelhouse
&/or
CR remote panel



(*1) dimensioning with 12Vdc power supply

(*2) dimensioning with 12Vdc power supply

ENVIRONMENTAL CONDITIONS



Temperature limits

- ▶ +5°C to 55°C (functioning)
- ▶ 0°C to 70°C (storage)



Humidity

- ▶ 95% Humidity max.



Ingress protection rating

- ▶ AVAS_HMI: IP66 (front)
IP20 (back)

