



amesys
BEN

SAFENAV Hull Stress and Cargo Monitoring System



SAFENAV will accurately help the crew to assess in real time the dynamic load applied to the ship's structure or the real time accelerations on the ship's cargo in order to limit the risks of damaging or weakening.

Monohull High speed Crafts and traditionnal ships require special care at sea due to their specificities in both design and operational aspects.

High valuable and fragile Cargo require special care at sea, due to their specificities in both design and material.

SAFENAV Cabinet

- Moulded alloy box in black colour or customized located in the wheel house
- The Processing unit displays and records relevant information on the Bow Vertical, Transversal accelerations and impacts acting on the Hull or on the cargo.
- The display mode is simple, intuitive and includes the operational limits setting according to the ship's specifications.
- It displays and records (optional) relevant information on the impact and acceleration levels transmitted by accelerometers and strain gauges sensors.
- Safenav can be stand alone or integrated.

TECHNICAL FEATURES

- Power supply 220Vca 50/60 Hz \pm 10 %
- Processing 133 MHz SC520 processor
- 1 flash disc IDE for storage
1 floppy disc for service and update
- Dimensions 170 x 280 x 265mm
- Weight 4.5 kilos

Accelerometers sensors

- Two blocks transducers with each 3 axis
- Highly sensitive accelerometer adequately integrated to the ship's bow part and stern part structure.
- Power supply : 9 to 28 Vdc from main cabinet
- Scale : +/- 3 G
- Output signal : 4-20 mA
- Linearity: +/- 1 % of full scale
- Sensibility : < 1%
- MTBF : > 100 000 hours
- Protection: IP 65 - Chocks: 10g/11ms

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Output / Sortie

- 1x RS422 NMEA output available for interface to the VDR and Integrated Automation System

Input / Entrée

- 1x RS 422 NMEA input available for interface with the computer



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