



StressAlert II is a hull stress monitoring system for a large range of ships, including FPSOs, oil and LNG tankers, bulk carriers and container ships. It provides advanced monitoring of structural integrity throughout the life of a vessel, and enables the Master to pilot his vessel to the maximum safe efficiency.

- **More than 100 sets in service**
- **Monitors static and dynamic forces on the vessel during loading, unloading and in a seaway**
- **Helps define limits of operation of the ship**
- **Maintains a continuous, permanent record of forces on the vessel structure**
- **Increases value on the S&P market, by recording risk management data**
- **Enables safer operation of the vessel**

StressAlert II is built to meet requirements for electrical apparatus operating in hazardous areas and is approved by marine classification societies.

The basic system meets classification societies' requirements such as Lloyds Register ShipRight SEA(Hss-4), American Bureau of Shipping HM2+R and Det Norske Veritas HMON-1.

Additional sensors are available to meet higher specifications required by some classification societies' notations, such as DNV HMON-2 and ABS Hm3.

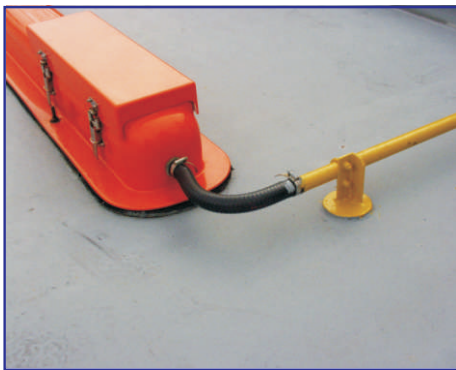
Description

The system monitors bow slamming and the longitudinal bending movements within the structure, and compares these with levels predetermined by the classification society in conjunction with the navel architect or ship designer.

Time histories and alarms are displayed on a comprehensive set of screen displays, and interfaces to other on-board systems are provided.

A typical installation comprises:

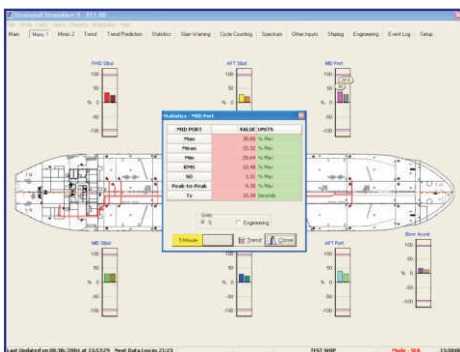
- 4 x Long baseline strain gauges
- 1 x Bow accelerometer
- 1 x Bow pressure transducer (optional)
- 1 x Zener barrier unit
- 1 x Logger/Display unit - PC
- 1 x Signal conditioning unit
- 1 x Uninterruptible power supply unit
- 1 x Printer (optional)



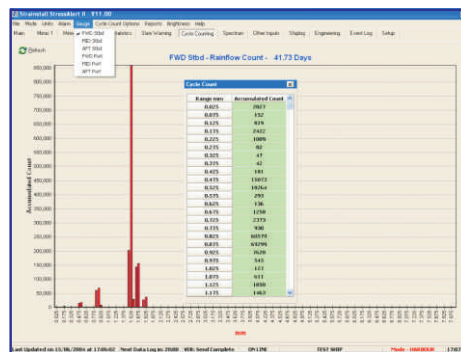
Deck gauge



Accelerometer



Screen display's



StressAlert II can be installed and commissioned on new-builds, or as retrofit, by our team of field engineers and trained representatives world-wide.

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