



The SloshAlert system has been designed to meet the new classification society requirements including the recent DNV Part 6 Chapter 11 Jan 2005.

The system uses the latest fibre optic TDM (Time Domain Multiplexed) technology providing the first opportunity to utilise fibre optics for high speed, high channel number monitoring system.

Fibre Optic sensors using Bragg grating technology offers an extremely safe method of positioning sensors in hazardous area where extreme temperature variations may occur.

The SloshAlert system can be expanded to include HSMS (Hull Stress Monitoring System) using the same fibre optic technology.

Straininstall can provide a stand-alone HSMS as either conventional StressAlert II or as the fibre optic StressAlert FO.

The Sloshing system includes:

- Fibre Optic pressure sensors are positioned within the membrane construction to measure pressure. The sensors are connected to a main fibre running down each side of the vessel. The sensors are designed to measure pressure over the range 0 – 4MPa.
- The Sloshing sensors frequency range 30 – 1 200 Hz.
- Sloshing sensor sampling rate 3kHz.
- Fibre optic networks are connected to a main interrogator providing 4 optical channels with 20 sensors on each channel (80 sensors total).
- Interrogator mounted in wall mounted enclosure.
- Operator display on bridge connected to interrogator via Ethernet interface.
- UPS (uninterruptible power supply).
- Display software, providing the crew with user-friendly displays of pressure loading.
- Remote software, which can be run on any PC connected to the Ethernet LAN.
- Replay software, for shore based data analysis.