ANTI-HEELING CONTROL SYSTEM

System Function and Working Principle

The Anti-Heeling Control System is used to detect the heeling angle of the vessel and to rebalance the ship automatically by pumping ballast water from starboard to port or vice versa. The systems can operate with reversible or non-reversible pumps, using Remote Controlled Valves to ballast water flow.

The complete system includes:
1. Anti-Heeling Control Panel
2. Pump Starter Panel
3. Heeling Pump
4. Heeling Valves
5. Level Transmitters
6. Level switches

The Anti-Heeling System AH2000 and AH2000i can work in conjunction with the stability control system and the Valve Remote Control System for bilge and ballast valve control, the precision heeling sensor, mounted athwart to the ship’s direction and supplies the heeling angle signal to the master PLC.

More complex Anti-Heeling System makes use of 4 Anti-heeling tanks and inclinometers with 4 axis (port, starboard, forward, and aft). Such systems are employed on some vessels which require the vessel to anti-heel itself at 4 axis during operation.

The master CPU is housed in a flash mounting. The front panel of the anti-heeling includes selected switch for mode selection and lamp test, integrated in a mimic panel. The ballast pump starts only if it gets the signal that the respective valves are open. These valves will be controlled by means of master PLC. When pump starter panel in operation mode, signal “SYSTEM READY” will send to master PLC, anti-heeling control system is enabled.