



A ship's hydraulic A-frame is an important asset onboard a vessel and is used for lifting, moving, and deploying all types of equipment to perform its mission and deliver objectives.

Keeping the winch and A-frame system well maintained and working within design parameters is essential to safe and accurate operations and continued equipment availability. With extensive lifting, winch and crane experience, Water Weights have developed an integrated A-Frame Monitoring System.

The package is highly flexible and visually represented onscreen for quick and easy reference with additional audible and logged information during critical A-frame and winching operations.

Ship's A-Frame Monitoring System

The overriding benefit of the monitoring system is safe and effective operations.

By providing clear and concise information to the operator in an easily recognized graphical format additional data is provided with minimal increase in operator workload. The audio-visual alarms warn the operator action is required when the display is not being monitored.

Other features such as data logging are transparent to the operator. The system is programmable for most A-frame/Winch systems and is fully scalable allowing additional variables such as wind or sea state to be integrated.

The wireless sensors allow simple new or retrofit installation. Sensor cabling is not required allowing quick install in hard to reach locations or in areas where conventional equipment may constitute trip hazards.





A-Frame Load Monitoring System



The standard Monitoring package consists of a suite of ultra rugged Battery powered wireless telemetry measurement sensors. These sensors communicate acquired data back to the HMI allowing real time alarms, data logging and visual representation of the A frame position and loads during operations.

Standard Package Provide

- A-Frame Load
- Winch Load
- A-Frame Angle
- A Frame Radius
- Vessel Angle/attitude

Typical Features

- Color HMI Touch screen display
- Extremely simple operation
- Telemetry wireless sensors
- Load versus angle load chart
- Graphical A Frame position display
- Safe Load Indication
- Visual and Audible Alarm system
- Data logging lifts and utilization
- (removable memory)
- Long Life Battery powered
- Battery life monitoring



Optional Features

- Sea and Wind Conditions
- Rope payout length/Speed/direction
- Winch Hour Meters
- Winch and A Frame utilization data
- Inspection reminder
- Trip system (winch/A frame inhibit)
- Portable handheld display for Riggers



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