

## A-Frame Monitoring System

IMES have extensive history of supplying integrated measurement and monitoring systems to the Oil and Gas Industry. From mooring, anchor and winch measurement systems to complex and high integrity crane monitoring packages.

An A frame is an expensive asset not only in terms of the initial cost but the revenue it generates over its life. 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 our extensive lifting, winch and crane experience both on and offshore and the above criteria in mind we have developed an integrated A- Frame Monitoring System for vessel installed A frames. 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.



### ***Hazardous Area Option***



### ***RF Wireless Option***

#### **Safe and Effective Operations**

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

By providing clear and concise information to the operator in an easily recognised 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 scaleable 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 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 Measurements

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

### Typical Features

- Colour 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 utilisation (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 utilisation data
- Inspection reminder
- Trip system (winch/A frame inhibit)
- Portable handheld display for Riggers

**For more information or to discuss your requirements please contact;**

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