



Crane Load Measuring and Monitoring

Water Weights provides high integrity load monitoring systems for all types of overhead cranes. With over 25 years experience in the crane industry, Water Weights has extensive knowledge of customer requirements and desired functionality.

Building on this experience, we can provide crane load monitoring systems that are high quality, reliable and easy to install, calibrate and maintain. Our systems provide real time measurement of critical components and assemblies to support the daily operation and long-term maintenance of the crane.

Water Weights provides systems for:

- Real time load measurement during lifting operations
- Load indication via multiple displays such as operator consoles, large digit scoreboards, wireless handheld displays, and robust LCD and CRT graphical interfaces
- Overload protection with alarms and relays for visual and audible indication, as well as safety lock out of overload equipment
- Integration of boom angle data to derive load moment within the designed crane operating envelope
- Measurement of crane travel and line payout for detailed analysis of operating parameters and history tracking of lift information
- Continuous monitoring and logging of a wide range of sensors as well as interpretation of information collected, to determine equipment usage and ongoing maintenance and inspection requirements





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Load Accuracy Throughout The Range

Crane monitoring system utilizing a two point calibration make it impossible to ensure the load indicated is accurate at any point in the envelope, other than at zero or 100% capacity.

Water Weights takes calibration a step further by employing a multipoint calibration over the span of the crane capacity. By calibrating at least 6 points in the range of the crane this method accounts for any nonlinearity in the load cell, wire rope, or crane support structure itself. This method does ensure that the monitoring system is accurate across the full range of the crane capacity.

By using Water Weights, a multipoint calibration does not mean making multiple lifts. Water Weights are rigged only once, and filled incrementally to attain each point in the calibration.

Safety and Power

Our systems are designed to provide crane overload protection. We can provide a safety solution to meet the toughest industry demands. Systems can provide anything from basic visual and audible indication to full crane lock out and supervisor key override upon overload.

Overload and monitoring systems can be provided with battery backup to any specification your operation requires. Our team will evaluate your specific application and engineer a solution that is right for you. We provide an effective and reliable solution, at a realistic price.