crane load monitoring and measurement solutions
Water Weights manufactures and sells high integrity load monitoring systems for all types of cranes; including equipment on military vessels and yards where MIL STD apply.

With over 25 years experience in the crane industry; we have extensive knowledge of customer requirements and desired functionality.

Building on this experience, we design and build crane load monitoring systems that are high quality, reliable, 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.

Applications include:

- Above-the-hook (sheaves, drums, trolleys)
- Below-the-hook (links, shackles, canisters, beams)
- In-the-hook block (trunnion, sheave pin, hook)
- Rope dead-end (A2B, wedge socket, clamp-on, line rider)
- Cabled or wireless telemetry.
Engineered systems for

- Real time load measurement during lifting operations
- Load indication via multiple displays
  - Operator consoles
  - Large digit scoreboards
  - Wireless handheld displays
  - LED, LCD visual graphics displays
- Overload protection
  - Alarms
  - Relays
  - Safety lock-outs
- Data logging for tracking of lift information
  - Boom angle
  - Dynamic loading
  - Peak loading
  - Crane travel
  - Line payout
- Turning collected data into knowledge for determining equipment usage for ongoing maintenance and inspection planning.

Load Accuracy Throughout the Range

Crane monitoring systems using a two-point calibration make it impossible to ensure that the load indicated is accurate throughout the whole envelope, other than at zero and 100% of capacity.

Water Weights takes calibration a step further by employing a multi-point calibration over the span of the crane capacity. By calibrating at least 6 points in the range of the crane using our unique water bag system, the method accounts for any non-linearity in the load cell, wire rope, and the crane support structure itself. This process ensures our monitoring systems are accurate across the full range of the crane capacity.
Standard Product Range

**LE Series Wireless Load Link**
The LE Series load measuring link provides good performance at low cost, and is suitable for any industrial lifting applications. The anodized aluminum billet construction makes this load cell very lightweight and ensures ease of handling. The LE is specifically designed to run on standard alkaline batteries consuming as little power as possible, leading to superior battery life.

**SL Series Wireless Load Shackles**
The SL Series load measuring shackle is an excellent solution for low head height applications as well as simplifying your rigging configurations. The SL Series combines an alloy shackle with a precision load measuring pin, and is suitable for any lifting application as load links. The SL utilizes the same power maximizing principles as the LE to provide superior battery life from standard alkaline batteries.

**GL112 Wireless Hand-held Load Indicator**
This wireless hand-held load display indicator interfaces with all our wireless load cells. This indicator is ideal for all applications, providing simple load indication while offering many upgrade capabilities such as serial data output for printers among others.

The GL112, like the rest of the wireless load cell line, runs on standard alkaline batteries with an option of using rechargeable batteries if desired.

Worldwide Locations
US tollfree # 888 998 3787
international +1 909 626 8316

Email:
marketing@waterweights.com

[www.waterweightsinc.com](http://www.waterweightsinc.com)

Trade and Service marks of Water Weights
© Copyright reserved Water Weights Inc. 2011