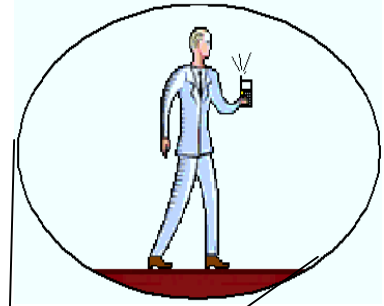


Ballast Automation and Wireless Control



1000 ft. Iron Ore Vessel

Trident's ballast automation with wireless remote control is now available. Using the new 802.11 WiFi technology with industrial handhelds, it is now possible to monitor and adjust your ballast from anywhere on the weather deck.

One mate has control over the entire loading process.

- Ballast, list, and draft, are displayed in real-time (Live Values)
- Control of valves, pumps, and motors via wireless handhelds
- Faster response times than traditional radio communication to a second mate

Technology and Equipment

Redundant WiFi (2.4GHz to 5GHz) networks are setup using 2 directional wide angle antennas with a range of 1 mile at 2Mbits. This arrangement assures great cross coverage of the weather deck and allows control in the event one of the networks fails.

Industrial handhelds are used to communicate to Trident's integrated control solution using the WiFi network mentioned above. This unit is IP54 compliant (rain and dust resistive) with a battery life between 4 to 10 hours and an operating temperature range of -20° to 60° C (-4° to 140° F). The drop specification is as follows: withstands a 5' drop 26 times onto a 1/2" steel plate over concrete.

Trident Automation is dedicated to providing process control solutions tailored to each customer's requirements. Please visit our website at www.tridentautomation.com for more information.