

Crane Capacity Verification Tension Link

Industry: Maritime

Summary

Customer Challenge

A customer wants to verify that their crane is strong enough to safely lift a heavy load, at its rated maximum load capacity for maritime applications. A wireless solution is needed to avoid long cables, and to have a faster installation time.

Interface Solution

Interface, Inc's Model WTSTL Wireless Tension Link Load Cell can measure the load's maximum capacity. The WTS-RM1 Wireless Relay Output Receiver Modules also can trigger an alarm that can be set when the maximum capacity of weight/force has been reached. The data is transmitted and can be reviewed with the WTS-BS-1-HS Wireless Handheld Display, or on the customer's PC.

Results

Customer was able to verify if the crane is safe and functional enough to lift its working load limit (WLL) or safe working load (SWL) capacity. The data is transmitted and logged to the customer's PC or laptop, or to a handheld device in real-time.

Materials

- WTSTL Wireless Tension Link Load Cell
- WTS-RM1 Wireless Relay Output Receiver Module
- WTS-BS-1-HS Wireless Handheld Display for Single Transmitters
- WTS-BS-4 Industrial USB Base Station
- WTS Toolkit Software & Log100 Software Included
- Customer PC or Laptop

How It Works

1. The WTSTL Wireless Tension Link Load Cell is installed on the crane, lifting an item that maxes out to the crane's working load limit (WLL).
2. The WTSTL transmits data to the WTS-RM1 Wireless Relay Output Receiver Module and can trigger an alarm when the capacity has been reached. Information is also transmitted both to the laptop (through the WTS-BS-4 USB Base Station) and the WTS-BS-1-HS Wireless Handheld Display for single transmitters in real-time.

