

Theater Rigging System

Load Shackles and WTS Wireless Telemetry System

Industry: Entertainment

Summary

Customer Challenge

To prevent cable tangling, a theater needs a wireless system to monitor multiple load cells at once during stage rigging activities. They want to monitor multiple locations of the load cells at once or individually, especially when equipment and loads such as curtains are being rigged on stage.

Interface Solution

Interface suggests installing multiple WTSSHK-B-JR Wireless Crosby™ Bow Load Shackles to the stage's rigging system, with integrated Wireless Strain Bridge Transmitter Modules. When a load is implemented, the load shackles will wirelessly transmit the data to the WTS-BS-4 Wireless Base Station with USB Interface in Industrial Enclosure connected to the customer's PC. Results of all load cell points or individual points can be wirelessly transmitted and displayed through a customer computer with Log 100 software, or using the WTS-HK-S Next-Generation Wireless Handheld.

Results

Interface's load cells and WTS Wireless Telemetry System successfully achieved the customer's need to monitor the multiple load cells at once or individually- especially during different stage rigging activities.

Materials

- WTSSHK-B-JR Wireless Crosby™ Bow Load Shackles with integrated Wireless Strain Bridge Transmitter Modules
- WTS-BS-4 Wireless Base Station with USB Interface in Industrial Enclosure
- Supplied Log100 software
- WTS-HK-S Next-Generation Wireless Handheld
- Customer PC or Laptop

How It Works

1. Multiple WTSSHK-B-JR Wireless Crosby™ Bow Load Shackles are installed on the theater's rigging system.
2. Loads such as curtains or lighting fixtures are rigged onto the theater's stage.
3. The load shackles collect the force data, where it is wirelessly transmitted and displayed on the customer's computer with Log 100 software, or using the WTS-HK-S Next-Generation Wireless Handheld. The customer is able to monitor all load cell locations at once or individually.

