Multi Stage Load Monitoring
Wireless Telemetry System

Industry: Entertainment

Summary

Customer Challenge

Concert venues both indoor and outdoor use multiple stages allowing simultaneous shows and acts to occur. Monitoring the loads per stage is a necessity to ensure the stability of the stage structures, along with safety of all working personnel.

Interface Solution

Interface's WTS 1200 Standard Precision LowProfile™ Wireless Load Cells can be installed at multiple points within multiple stages. When connected to the WTS Wireless Telemetry System, results of all load points can be wirelessly transmitted and displayed through a customer computer with Log 100 software, or using the WTS-BS-1 Wireless Handheld Display for Unlimited Transmitters.
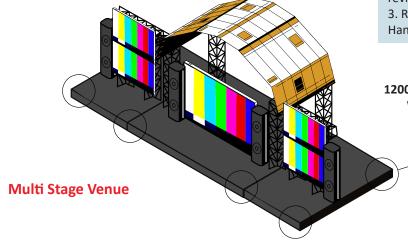
Results

Interface's load cells and WTS Wireless Telemetry System successfully achieved the customer's need to monitor the loads implemented on their multi stage venue.

Materials

- Multiple WTS 1200 Standard Precision LowProfile™ Wireless Load Cells with integrated wireless acquisition module
- WTS-BS-6 Wireless Telemetry Dongle Base Station
- WTS-BS-1 Wireless Handheld Display for Unlimited Transmitters
- Supplied Log100 Software
- Customer PC or Laptop

How It Works

1. Numerous stages are equipped with multiple WTS 1200 Standard Precision LowProfile™ Wireless Load Cells.
2. The load cells have an integrated Wireless Strain Bridge Transmitter Module, the force measurements from all load points, so the force is wirelessly transmitted to the WTS-BS-6 Wireless Telemetry Dongle Base Station and conveniently displayed on the customer's PC. Additionally, the system allows for the configuration of colored alarms to alert the user in case of force overload. Results can also be logged for review as well.
3. Results can also be transmitted to WTS-BS-1 Wireless Handheld Display for Unlimited Transmitters.

Multi Stage Venue

1200 Standard LowProfile™ Wireless Load Cells

WTS-BS-1 Handheld Display

Customer PC with supplied software

WTS-BS-6 Dongle Base Station