

# Entertainment LED Screens

## Load Button Load Cells and WTS Wireless Telemetry System

### Industry: Entertainment

#### Summary

##### Customer Challenge

A customer constructing a huge venue wants to weigh their very large LED screens. They want to measure the force of the structure that is supporting the screens, to ensure stability and structural integrity.

##### Interface Solution

Interface suggests their LW General Purpose Load Washer Load Cells being assembled within rods that are part of the support structure. The LED screen hangs off the structure, which connects to the rods. The compression forces applied to the rod will be measured by the LW's installed in between. The load washers are paired with WTS-AM-1E Wireless Strain Bridge Transmitter Modules, where the force results are wirelessly transmitted to both the WTS-BS-1 Wireless Handheld Display for Unlimited Transmitters and the WTS-BS-4 Wireless Base Stations with included Log100 software.

##### Results

Interface's wireless load washer system successfully weighed the forces of the large LED screen for the customer's new venue.

#### Materials

- LW General Purpose Load Washer Load Cells
- WTS-AM-1E Wireless Strain Bridge Transmitter Modules
- WTS-BS-1 Wireless Handheld Display for Unlimited Transmitters
- WTS-BS-4 Wireless Base Station with USB Interface in Industrial Enclosure
- Customer PC or Laptop with supplied Log100 Software

#### How It Works

1. Hundreds of LW General Purpose Load Washer Load Cells are installed within the LED screen's rod structure. The LW's are paired with WTS-AM-1E Wireless Strain Bridge Transmitter Modules.
2. As the LED screen hangs off the support structure, the LW's measure the compression forces from the rods sustaining it.
3. Force results are wirelessly transmitted to the WTS-BS-1 Wireless Handheld Display for Unlimited Transmitters, and the WTS-BS-4 Wireless Base Station with included Log100 software on the customer's PC.

