

Timber Weighing and Harvesting Load Cell

Industry: Natural Resources

Summary

Customer Challenge

A timber company needs a weighing system for sustainable forest management. They need to measure the amount of timber harvested. Weighing and monitoring harvested timber helps with resource monitoring, and contributes to the overall sustainability of the forestry industry.

Interface Solution

Interface suggests creating a truck weighing scale to weigh logging trucks both before and after the loaded timber. Multiple SSLP Stainless Steel LowProfile Universal Load Cells with WTS-BS-1E Wireless Transmitter Modules are installed under the weighing bridge. The load cells will transmit the force results wirelessly to the WTS-BS-4 Industrial Base Station connected to the customer's PC with provided Log100 software. The WTS-LD2 Wireless Large LED Display can also display the weight inside for the driver to see in real time. Results can also be viewed on the WTS-BS-1-HA Wireless Handheld Display for Multiple Transmitters.

Results

Interface's Wireless Telemetry System used in the logging truck weighbridge was highly accurate and efficient, creating better resource management and conservation.

Materials

- SSLP Stainless Steel LowProfile Universal Load Cells
- WTS-BS-1E Wireless Strain Bridge Transmitter Module
- WTS-BS-1-HA Wireless Handheld Display for Multiple Transmitters
- WTS-LD2 Wireless Large LED Display
- WTS-BS-1-HA Wireless Handheld Display for Multiple Transmitters
- WTS Toolkit and Log100 Software
- Customer PC or Laptop

How It Works

1. Multiple SSLP Stainless Steel LowProfile Universal Load Cells with WTS-BS-1E Wireless Transmitter Modules are installed and mounted to the bottom of the truck weighbridge.
2. The load cells collect the force measurements and sum the total weight of the logging truck's timber load.
3. The data is wirelessly transmitted to the customer's laptop through the WTS-BS-6 Dongle Base Station using the Log100 Software. The sum weight data can be logged, graphed, and sent to the cloud using the supplied software. It can also be viewed on the WTS-BS-1-HA Wireless Handheld Display for Multiple Transmitters
4. The WTS-LD2 Wireless Large LED Display can also display the weight inside of the vehicle for the driver to see in real time.

