

Silo Grain Dispensing

Load Cell and Wireless Telemetry System

Industry: Agriculture

Summary

Customer Challenge

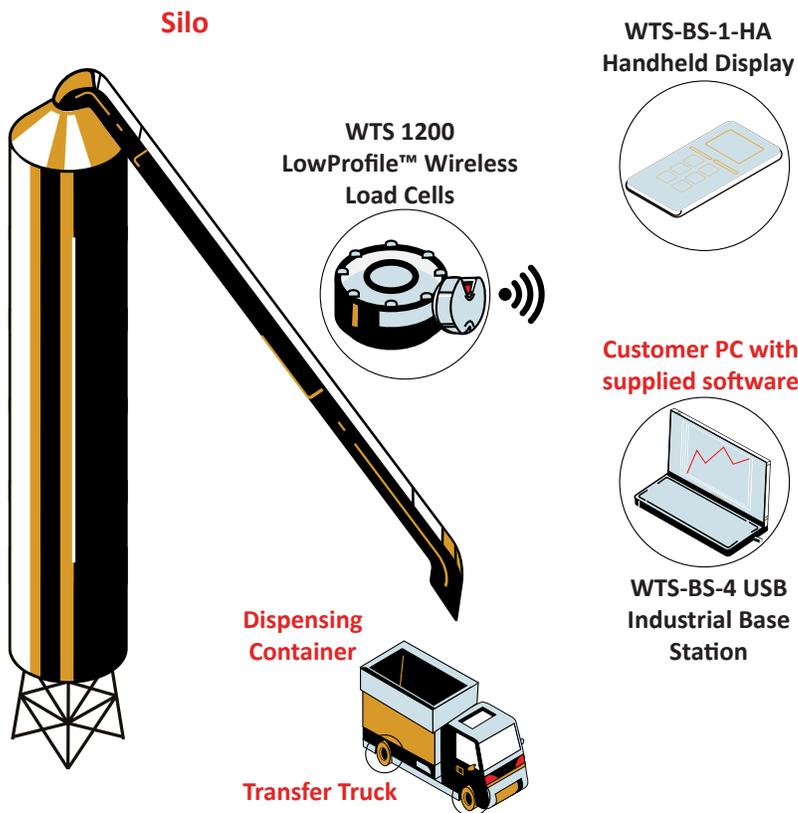
A silo is returning grain into a dispensing container. A customer wants to measure and record the grain being put in and out of their grain dispensing container, as it dispenses content into a carrier truck for transportation. The customer would also prefer a wireless solution.

Interface Solution

Interface suggests a wireless solution, by installing WTS 1200 Standard Precision LowProfile™ Wireless Load Cells at the legs of the grain dispensing container. The 1200 can measure the distribution correlation of the grain as it inputted and outputted from the container. Results will be transmitted and displayed using the WTS-BS-1-HA Handheld Display for multiple transmitters, and will be logged and graphed using the WTS-BS-4 USB Industrial Base Station.

Results

The customer was able to log and graph the measurement results of the grain content that the silo dispenses into the grain dispensing container, and also when the grain is dispensed into the carrier truck.



Materials

- WTS 1200 Standard Precision LowProfile™ Wireless Load Cells
- WTS-BS-4 USB Industrial Base Station
- WTS-BS-1-HA Handheld Display for multiple transmitters
- WTS Toolkit and Log100 Software
- Customer PC or Laptop

How It Works

1. Multiple WTS 1200 Standard Precision LowProfile™ Wireless Load Cells are installed at the legs of the grain dispensing container.
2. As the silo puts grain into the grain dispensing container, force measurements of the distribution is measured and totaled using the supplied Log100 Software.
3. The customer can view real-time results using the WTS-BS-1-HA Handheld Display for multiple transmitters, or on their PC computer or laptop when the WTS-BS-4 USB Industrial Base station is attached. The Log100 can display, log, graph, and total the sum weight of all load cells.