

Tractor Linkage Draft Control Load Pin

Industry: IoT

Summary

Customer Challenge

A farmer wants to measure the forces applied on their tractor's draft control, between the tractor and any linked on attachments. Measuring the force will help the farmer be able sense any strains on the hitch of the tractor, and will be needed in order to apply any specific settings to the draft control when the tractor encounters rough terrain. A wireless system is needed in order to log the force data.

Interface Solution

Interface's WTSLP Wireless Stainless Steel Load Pin is a wireless load pin that can be installed directly in the hitch, replacing the normal shear pin of the tractor. Force results are transmitted wirelessly to the WTS-BS-4 USB Industrial Base Station, where the customer can view the results on their PC computer or Laptop with the supplied WTS toolkit. The customer can also view results on the WTS-BS-1-HS Handheld Display for Single Transmitters in real-time.

Results

The customer is able to determine the specific draft control settings for their tractor after using Interface's custom solution Wireless Load Pin and Wireless Telemetry System products.

Materials

- WTSLP Wireless Stainless Steel Load Pin
- WTS-BS-1-HS Handheld Display for Single Transmitters
- WTS-BS-4 USB Industrial Base Station
- WTS Toolkit (graphing, logging, and set up software, included with WTS-BS-4)
- Customer PC Computer or Laptop

How It Works

1. The WTSLP Wireless Stainless Steel Load Pin is installed where the tractor's original shear pin would be located.
2. An implement is installed to the hitch.
3. The force results are measured and relayed to the wireless telemetry systems, such as the WTS-BS-4 USB Industrial Base Station, where the customer is able to review the results on their PC computer or laptop with the supplied WTS toolkit. It is also transmitted to the WTS-BS-1-HS handheld display, where customers can view the measurements alternatively in real-time.

