

Smart Pallet Solution

Load Cell and WTS Wireless Telemetry System

Industry: IoT

Summary

Customer Challenge

A customer wants a pallet weighing solution in their warehouse to monitor their products and goods that come through day in and day out. They also want to be able to verify if any products are stolen based on the weight, and able to determine pricing for their goods based on the weight. They would also like a smart, wireless solution.

Interface Solution

Interface suggests using multiple SSB Sealed Beam Load Cells, and installing it within the corners of the bottom pallet. Heavy loads are put onto the pallet, which is captured when connected to WTS-AM-1E Wireless Strain Bridge Transmitter Modules. The force results are wirelessly transmitted and logged to the customer's PC using the WTS-BS-6 Wireless Telemetry Dongle Base Station with supplied software with supplied software.

Results

The customer was able to successfully monitor the weight of their pallets, thus monitoring their products and goods coming in and out of their facility on a daily basis.

Materials

- SSB Sealed Beam Load Cells
- WTS-AM-1E Wireless Strain Bridge Transmitter Modules
- WTS-BS-6 Wireless Telemetry Dongle Base Station with supplied Log100 software
- WTS-BS-1-HA Wireless Handheld Display for Multiple Transmitters
- Customer PC or Laptop

How It Works

1. SSB Sealed Beam Load Cells are installed within the corners of the bottom pallet, and the SSB load cells are attached to the WTS-AM-1E Wireless Strain Bridge Transmitter Modules.
2. The weight measurement is logged and graphed and wirelessly transmitted from the WTS-AM-1E to the customer's PC using the WTS-BS-6 Wireless Telemetry Dongle Base Station and the supplied software. Load cells can be viewed individually, or summed.
3. Results can also be transmitted to the WTS-BS-1-HA Wireless Handheld Display for Multiple Transmitters where each load cell can also be summed.

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